

PolyVision®

User Guide

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Welcome

This manual describes how to use the powerful options provided by these PolyVision® interactive products:

- ēno interactive whiteboard
- ēno mini
- Walk-and-Talk (WT, WTL, IP) interactive products
- TS and TSL interactive whiteboards

These PolyVision products interact with the PolyVision driver installed on your computer. The features and configuration options provided by the PolyVision driver are described in "The PolyVision driver" on page 56.

Using ēno interactive whiteboards

What are ēno interactive whiteboards?

ēno interactive whiteboards provide cordless interactivity with a computer using the Bluetooth-enabled ēno stylus. While the computer is projected onto the ēno interactive whiteboard, use the stylus to:

- navigate through documents, presentation, or websites on the whiteboard
- write and erase notes
- print or save your work



ēno interactive whiteboards are made from ceramicsteel so you can use them with dry-erase markers and magnets as well as with the stylus and interactive features provided when a computer is projected on the whiteboard.

NOTE:

The ēno interactive whiteboard promotes collaboration by enabling multiple users, each with their own stylus. Multiple users (up to three) can collaborate by using their stylus on the whiteboard. A person with an ēno

stylus and ēno mini can also write and control the projected computer screen. Refer to "Using ēno mini" on page 14.

Getting started with ēno interactive whiteboards

PolyVision makes it easy to install the PolyVision driver and add Bluetooth capability to the computer that interacts with ēno whiteboard. Everything you need is provided with the ēno whiteboard. (Refer to the **PolyVision Interactive Whiteboard Installation and Operation Guide**.)

To get started using your ēno interactive whiteboard:

1. Make sure the computer and projector are connected and turned on.
2. Make sure the latest version of the PolyVision driver is installed on the computer. ēno requires PolyVision 1.8 or later. (Refer to "PolyVision driver installation for ēno interactive whiteboards" on page 4 and "Checking for updates" on page 67.)
3. Remove the stylus cap to turn it on. (Refer to "Turning the ēno stylus on and off" on page 5.)
4. Make sure the stylus has a Bluetooth connection to the computer. (Refer to "Pairing the ēno stylus Bluetooth signal with your computer" on page 5.)
5. Tap the projection mode control icon. (Refer to "Getting started in projection mode" on page 7.)

NOTE:

If this is the first use of the ēno whiteboard, if the computer has just rebooted, or if the PolyVision driver has just been launched, then tap the whiteboard instead of the projection mode control icon.

6. To toggle the stylus between pen and cursor functions, tap the pen/cursor control icon. (Refer to "ēno interactive whiteboard control icons" on page 10.)
7. To write or draw, tap a pen color control icon and write on the ēno whiteboard. (Refer to "Writing and erasing with the ēno stylus" on page 12.)
8. To erase, tap an eraser control icon and erase. (Refer to "Writing and erasing with the ēno stylus" on page 12.)

9. To print a copy using the printer connected to the computer, tap the print control con. (Refer to "Printing and saving" on page 12.)
10. To save a copy as a file in the computer "MyDocuments" folder, tap the save control icon. (Refer to "Printing and saving" on page 12.)
11. To type, tap the keyboard control icon and tap the on-screen keyboard. (Refer to "Using the on-screen keyboard" on page 11.)

PolyVision driver installation for ēno interactive whiteboards

If the PolyVision driver is not installed on the computer you want to use with the ēno whiteboard, install the driver.

Your Windows-based computer must have:

- Pentium processor
- 512MB Ram
- Windows XP SP2, Tablet XP SP2, or Vista
- VGA HD-15 video port
- one available USB port

Your Macintosh computer must have:

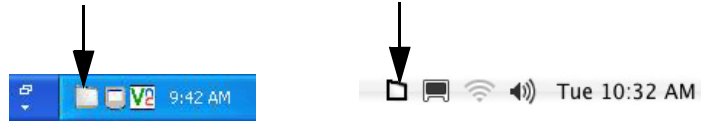
- PowerBook, G4, iBook, iMac, or eMac
- PowerPC G3 or higher or Intel-based processor
- 512MB Ram
- System software OS X (10.3.9 or better)
- USB port

To install the PolyVision driver:

1. Locate the installation CD provided with the whiteboard.
2. Insert the CD into the computer disk drive.
3. Installation should begin automatically. If it does not:
Windows: double-click "My Computer" on your desktop, double-click the disk drive named "PolyVision," double-click the Windows folder, and double-click "PolyVision driver installation." Installation begins.
Macintosh: double-click the PolyVision icon on your desktop, double-click the Macintosh folder, and double-click "PolyVision driver installation." Installation begins.

4. Follow the prompts you see on the screen to complete the installation. On a Macintosh, you must re-boot your system.

When installation is complete, a message appears on your computer screen and the PolyVision driver icon appears on your desktop.



The PolyVision driver runs unobtrusively in the background whenever the computer is on.

Turning the ēno stylus on and off

To turn the ēno stylus on and off:

- Remove and replace the stylus cap.

NOTE:

To preserve battery life, always replace the cap when the stylus is not in use.

The computer which is paired with your stylus provides on-screen warnings when:

- the ēno stylus battery is low, to remind you to replace the battery
- the stylus has been idle for five minutes, to remind you to replace the cap

NOTE:

Note that NiMH rechargeable batteries are not suitable for the ēno stylus. You can use either AAA or Lithium batteries. To maximize performance, use Lithium batteries.

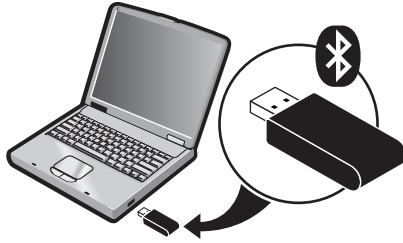
Pairing the ēno stylus Bluetooth signal with your computer

If the computer you want to use with the ēno whiteboard is not paired to the ēno stylus Bluetooth signal, you can pair it at any time.

PolyVision provides a Bluetooth adapter that automatically adds Bluetooth capability to your computer. You can use the PolyVision Bluetooth adapter regardless of whether your computer already includes Bluetooth capability.

To install the PolyVision Bluetooth adapter:

1. Turn on the computer.
2. Plug the PolyVision Bluetooth adapter into any available USB port on the computer and leave it there.



After the PolyVision Bluetooth adapter is plugged in, or if you want to use your computer's built-in Windows or Apple Bluetooth capability, you can automatically pair your ěno stylus using the PolyVision driver.

To automatically pair your ěno stylus with your computer using the PolyVision driver:

1. On your computer, click the PolyVision icon in your system tray (Windows) or system menu (Macintosh).
2. Choose "Configure the PolyVision driver" from the menu.
3. Click the "Hardware" tab.
4. Turn on the ěno stylus by removing its cap, then click the "Pair Stylus" button in the "Hardware" tab. Pairing proceeds automatically for most computers. If you have a Macintosh with operating system 10.3.9, follow the prompts you see on your screen.

NOTE:

The stylus is identified as device ADP-301. If you want to use a third-party Bluetooth product on your computer to pair with the ěno stylus, use the instructions provided by your product and refer to "Appendix 1: ěno Bluetooth pairing options" on page 71.

Unpairing the ēno stylus from your computer

The ēno stylus Bluetooth signal pairs with only one computer at a time. To use the ēno stylus with a different computer that is in the same room, you need to unpair it from the original computer before you pair it with a new computer.

If the stylus is paired to a computer that has the PolyVision Bluetooth adapter is plugged in, or if the computer uses built-in Windows Bluetooth capability, you can unpair the stylus using the PolyVision driver.

To unpair the ēno stylus from the computer using the PolyVision driver:

1. On the paired computer, click the PolyVision icon in the system tray (Windows) or system menu (Macintosh).
2. Choose “Configure the PolyVision driver” from the menu.
3. Click the “Hardware” tab.
4. Turn on the ēno stylus by removing its cap, then click “Remove ēno stylus.”

NOTE:

If you have a Macintosh with operating system 10.3.9, follow the steps you would normally use to remove hardware on the computer.

If you are using third-party Bluetooth capability, unpair the stylus using instructions provided by your product. The stylus is listed as device ADP-301.

Getting started in projection mode

To set up the projector and get started projecting your computer on the whiteboard:

1. Locate your projector’s video cable and connect it to the video port of your computer.
2. Connect the other end of the video cable to your projector.
3. Connect the projector’s power cord to an outlet.
4. Turn on the projector and focus your computer screen squarely onto your whiteboard. The projected image does not need to fill the white area.

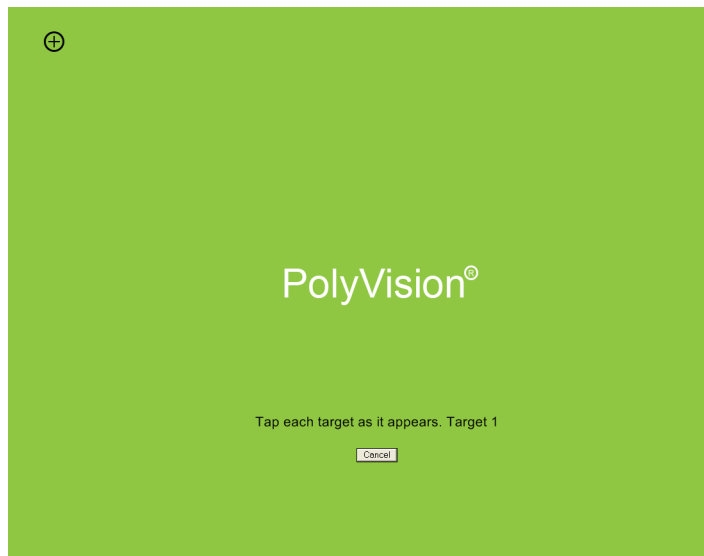
To align the projected image with the ēno whiteboard:

1. Assure that at least half of the projected image is actually projected onto the board.
2. Tap the projection mode icon on the control strip one time.

NOTE:

If this is the first use of the ēno whiteboard, if the computer has just rebooted, or if the PolyVision driver has just been launched, then tap the whiteboard instead of the projection mode control icon.

The alignment window projects from the computer to the whiteboard.



3. Using the ēno stylus, touch exactly on each target projected on the whiteboard, following instructions you see on the board. When alignment is complete, you are ready to begin using your computer and whiteboard in projection mode.

The alignment between your projector and the PolyVision product is important. PolyVision offers three levels of alignment: good, better, best. The default is "best" alignment. If you need to change the correspondence between the position of the cursor and the point of contact when you tap the whiteboard, refer to "Choosing alignment accuracy" on page 63.




















To exit projection mode when you are finished operating your computer from the board:

- Tap the projection mode icon on the control strip again.

Operating ēno interactive whiteboards

ēno interactive whiteboard control icons

ēno control icons that you tap with the ēno stylus are described below.

	Toggles "projection mode" on / off. The first use starts the on-screen alignment (calibration) process.
	Goes to the previous PowerPoint slide or PgUp.
	Goes to the next PowerPoint slide or PgDn.
	Displays the on-screen keyboard.
	Toggles between writing and cursor control.
	Displays all pen, highlighter, and eraser size and color options.
	The current pen color.
	
	
	The current pen width.
	
	
	Sets the pen to a solid line.
	Sets the pen to a dashed line.
	Narrow eraser width using the stylus.
	Large eraser width using the stylus.
	Clears all the writing.
	Prints a copy of the whiteboard.
	Saves a copy of the whiteboard contents into the MyDocuments folder (or where configured) as a new image.

Control icon options

You can access the functions of the Ēno control icons in two ways:

- by tapping the control icons with the stylus
- by configuring the PolyVision driver to project on-screen control icons in a window that you can drag around the screen, then tap the icons using the stylus (Refer to "Using on-screen tools" on page 65.)

Cursor control using the Ēno stylus

The Ēno stylus functions as both a pen and a cursor.

To toggle the stylus between pen and cursor functions:

- Tap the pen/cursor control icon with the stylus.

While using the stylus to control the computer:

- To click, tap the whiteboard once.
- To double-click, tap the whiteboard twice rapidly.
- For a right-click (Windows) or control-click (Macintosh), hold the stylus (without moving it) on the display for one second.
- To page up or down through a document, tap the left or right arrow control icon.

Using the on-screen keyboard

To display your operating system's on-screen keyboard so you can enter text in a dialog box or other projected computer window using the stylus on the whiteboard:

NOTE:

Macintosh operating systems require that the keyboard is enabled before it can be recognized by the PolyVision driver.

1. Tap the keyboard control icon.
2. Tap the board to place the cursor where you want to enter text.
3. To enter text, tap keys on the on-screen keyboard.
4. To move the keyboard, drag the title bar to another location.
5. To close the keyboard, tap the "close" button at the upper corner of the window or choose Keyboard again.

Writing and erasing with the ēno stylus

When you write on the ēno whiteboard with the stylus, the “ink” is projected from the computer. To write on the ēno whiteboard with the stylus:

1. Tap the pen/cursor icon to toggle between writing or cursor control.
2. Choose a pen color or pen width by tapping a control icon.
3. Write with the stylus anywhere on the board.

The control icons provide quick access to a small selection of the 54 available pen, highlighter, and eraser styles.

To use the palette of 54 pen options:

1. Tap the palette control icon.
2. Tap an option to select it.
3. Begin writing on the whiteboard with the stylus.

You can drag the palette to a convenient location. Close the palette by tapping the close icon in the upper right corner.

To erase:

1. Tap the wide or narrow eraser control icon.
2. Swipe over the items you want to erase.

Or,

1. Tap the erase all control icon to erase all writing on the board.

NOTE:

The PolyVision driver enables you to configure the red control icon to use the spotlight or reveal functions. To change the function of the red control icon, refer to "Spotlight and reveal options" on page 65.

Printing and saving

To preserve and distribute your work, you can print or save everything you see on the projected computer screen.

To print:

- Tap the print control icon. A snapshot goes to the printer connected to the computer.

To save:

- Tap the save control icon. A snapshot file is added to the computer in the “MyDocuments” folder (Windows) or “Documents” folder (Macintosh).

NOTE:

The PolyVision driver enables you to configure the default printer, the saved file type, and the saved file location. Refer to "Configuring PolyVision driver options" on page 56.

Multiple ēno users

The ēno interactive whiteboard provides a cordless experience for presentations and collaboration. Multiple users (up to three), each with their own stylus, can write, erase, and operate the computer that is projected on the whiteboard.

All users must have an ēno stylus with its Bluetooth signal paired to the same computer that is projected on the whiteboard. Refer to "Pairing the ēno stylus Bluetooth signal with your computer" on page 5.

Each user has equal control. All participants can write at the same time using a unique pen color and pen width. When one participant taps the pen/cursor control icon, all styli toggle between the pen and cursor functions. Only one stylus at a time can control the cursor.

NOTE:

The ēno mini and ēno interactive whiteboard use the same stylus. When multiple styli are paired with a computer, it does not matter whether they are used on the ēno interactive whiteboard or on the ēno mini. (Refer to "Using ēno mini" on page 14.)

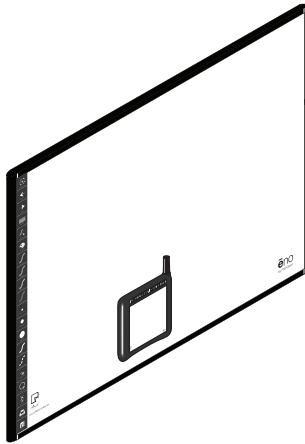
Using ēno mini

What is ēno mini?

ēno mini is a portable, light-weight digital slate that provides cordless interactivity with a computer from anywhere in the room. Use ēno mini with the ēno stylus as a digital tablet for annotating the computer screen or for cursor control to navigate through documents, presentations, or websites on a computer.



The Ēno mini is made from tough, antimicrobial material. Magnets on the back side of Ēno mini enable you to park it on a whiteboard or other magnetic surface for storage.



The Ēno mini requires no power but operates with the same battery-powered, Bluetooth-enabled stylus that you use with Ēno interactive whiteboards.



With the PolyVision driver installed on the computer, Ēno mini provides cordless interactivity in any of these scenarios:

- The Ēno mini and stylus provide a stand-alone cordless input device for a computer, so you don't need to use the mouse to control the cursor. Use the Ēno stylus and Ēno mini as you would a digital tablet or the thumb pad on a laptop. You can make notes and highlight items on the

computer screen using the ēno mini and stylus. With the cordless ēno mini, you are free to move about the room and still maintain contact with the computer.

- If the computer is projected on a wall or screen, use the ēno mini and stylus to annotate the computer screen and as a mouse to control the projected computer from any location in the room.
- By combining ēno mini with ēno interactive whiteboards, one person who is standing at the whiteboard with their ēno stylus can write or operate the computer in collaboration with another person who is totally mobile using ēno mini. Both styli are identical and both are paired to the same computer. Up to three ēno users can collaborate using their own ēno stylus. Refer to "Multiple ēno mini users" on page 24.

Getting started with ēno mini

PolyVision makes it easy to install the PolyVision driver and add Bluetooth capability to the computer that interacts with ēno mini. Depending on your model, your ēno mini may use an existing ēno stylus and/or Bluetooth dongle that came with an ēno interactive whiteboard.

The PolyVision driver automatically adjusts the working area of the ēno mini to the size and resolution of the computer screen so you never need to think about it.

To get started using ēno mini:

1. Make sure the PolyVision driver is installed on the computer and is upgraded to the latest version. ēno mini requires PolyVision driver version 1.8 or later. Refer to "PolyVision driver installation for ēno mini" on page 17 and "Checking for updates" on page 67. If you are using ēno mini with an ēno stylus that was previously installed with an ēno interactive whiteboard in the same room, you are now ready to begin using the ēno mini.
2. Make sure the ēno stylus has batteries and remove the stylus cap to turn it on. (Refer to "Turning the ēno stylus on and off" on page 18.)
3. Make sure the stylus has a Bluetooth connection to the computer. (Refer to "Pairing the ēno stylus Bluetooth signal with your computer" on page 19.)
4. To toggle the stylus between pen and cursor, functions tap the pen/cursor control icon. (Refer to "ēno mini control icons" on page 21.)

5. To annotate the computer screen, tap a pen color control icon and write on the ēno mini using the stylus. (Refer to "Writing and erasing with ēno mini" on page 23.)
6. To erase, tap the eraser control icon and erase on the ēno mini tablet using the stylus. (Refer to "Writing and erasing with ēno mini" on page 23.)
7. To type, tap the keyboard control icon and tap the on-screen keyboard. (Refer to "Using the on-screen keyboard" on page 23.)
8. To print a snapshot using the printer connected to the computer, tap the print control icon. (Refer to "Printing and saving" on page 24.)
9. To save a snapshot as a file on the computer, tap the save icon. (Refer to "Printing and saving" on page 24.)

PolyVision driver installation for ēno mini

If the PolyVision driver is not installed on the computer you want to use with the ēno mini, install the driver.

Your Windows-based computer must have:

- Pentium processor
- 512MB Ram
- Windows XP SP2, Tablet XP SP2, or Vista
- VGA HD-15 video port
- one available USB port

Your Macintosh computer must have:

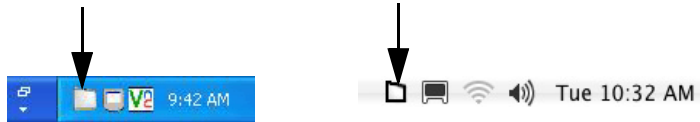
- PowerBook, G4, iBook, iMac, or eMac
- PowerPC G3 or higher or Intel-based processor
- 512MB Ram
- System software OS X (10.3.9 or better)
- USB port

To install the PolyVision driver:

1. Locate the installation CD provided with ēno mini.
2. Insert the CD into the computer disk drive.

3. Installation should begin automatically. If it does not:
Windows: double-click "My Computer" on your desktop, double-click the disk drive named "PolyVision," double-click the Windows folder, and double-click "PolyVision driver installation." Installation begins.
Macintosh: double-click the PolyVision icon on your desktop, double-click the Macintosh folder, and double-click "PolyVision driver installation." Installation begins.
4. Follow the prompts you see on the screen to complete the installation. On a Macintosh, you must re-boot your system.

When installation is complete, a message appears on your computer screen and the PolyVision driver icon appears on your desktop.



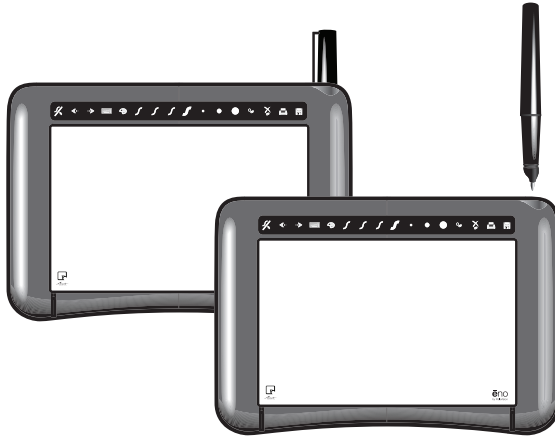
The PolyVision driver runs unobtrusively in the background whenever the computer is on.

Turning the ěno stylus on and off

To turn the ěno stylus on and off:

- Remove and replace the stylus cap.

ēno mini provides a handy stylus holder that can accept the stylus with or without the stylus cap. If the stylus cap is absent, the stylus fits in the holder tip first and the Bluetooth radio shuts off to preserve battery life.


NOTE:

When the stylus is not in use, always replace the cap or store it in the stylus holder to preserve battery life.

The computer which is paired with your stylus provides on-screen warnings when:

- the ēno stylus battery is low, to remind you to replace the battery
- the stylus has been idle for five minutes, to remind you to replace the cap

NOTE:

Note that NiMH rechargeable batteries are not suitable for the ēno stylus. You can use either AAA or Lithium batteries. To maximize performance, use Lithium batteries.

Pairing the ēno stylus Bluetooth signal with your computer

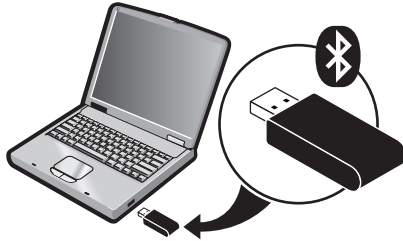
If the computer you want to use with the ēno mini is not paired to the ēno stylus Bluetooth signal, you can pair it at any time.

PolyVision provides a Bluetooth adapter with the ēno mini (or with the ēno interactive whiteboard for some models) that automatically adds Bluetooth

capability to your computer and initiates Bluetooth pairing with the stylus. You can use the PolyVision Bluetooth adapter regardless of whether your computer already includes Bluetooth capability.

To install the Bluetooth adapter:

1. Turn on the computer.
2. Plug the PolyVision Bluetooth adapter into any available USB port on the computer and leave it there.



After the PolyVision Bluetooth adapter is plugged in, or if you want to use your computer's built-in Windows or Apple Bluetooth capability, you can automatically pair your ėno stylus using the PolyVision driver.

To automatically pair your ėno stylus using the PolyVision driver:

1. On your computer, click the PolyVision icon in your system tray (Windows) or system menu (Macintosh).
2. Choose "Configure the PolyVision driver" from the menu.
3. Click the "Hardware" tab.
4. Turn on the ėno stylus by removing its cap, then click the "Pair Stylus" button in the "Hardware" tab. Pairing proceeds automatically for most computers. If you have a Macintosh with operating system 10.3.9, follow the prompts you see on your screen.

NOTE:

The stylus is identified as device ADP-301. If you want to use a third-party Bluetooth product on your computer to pair with the ėno stylus, use the instructions provided by your product and refer to "Appendix 1: ėno Bluetooth pairing options" on page 71.

Unpairing the ēno stylus from your computer

The ēno stylus Bluetooth signal pairs with only one computer at a time. To use the ēno stylus with a different computer that is in the same room, you need to unpair it from the original computer before you pair it with a new computer.

If the stylus is paired to a computer that has the PolyVision Bluetooth adapter is plugged in, or if the computer uses built-in Windows Bluetooth capability, you can unpair the stylus using the PolyVision driver.

To unpair the ēno stylus from the computer using the PolyVision driver:

1. On the paired computer, click the PolyVision icon in the system tray (Windows) or system menu (Macintosh).
2. Choose "Configure the PolyVision driver" from the menu.
3. Click the "Hardware" tab.
4. Turn on the ēno stylus by removing its cap, then click "Remove ēno stylus."

NOTE:

If you have a Macintosh with operating system 10.3.9, follow the steps you would normally use to remove hardware on the computer.

If you are using third-party Bluetooth capability, unpair the stylus using instructions provided by your product. The stylus is listed as device ADP-301.

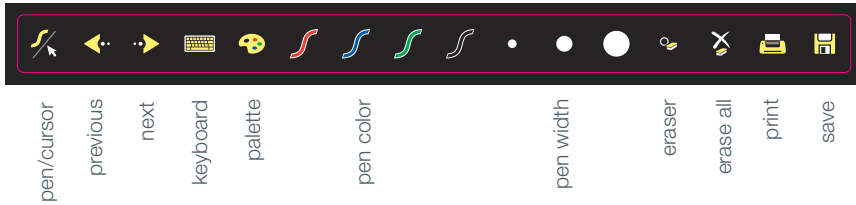
Operating ēno mini

ēno mini control icons

You can access the functions of the ēno control icons in two ways:

- by tapping the control icons at the top of the ēno mini with the stylus
- by configuring the PolyVision driver to project on-screen control icons in a window that you can drag around the screen, then tap the icons using the stylus (Refer to "Using on-screen tools" on page 65.)

Icon functions are described below.



Cursor control using the ēno stylus

The ēno stylus functions as both a pen and as a cursor.

To toggle the stylus between pen and cursor functions:

- Tap the pen/cursor control icon on the ēno mini.

While using the stylus as the cursor:

- To move the cursor around on the computer, drag the stylus with light pressure across the ēno mini.
- To perform drag-and-drop functions or move a window around the computer, drag the stylus with slightly more pressure across the ēno mini.
- To click, tap the ēno mini once.
- To double-click, tap the ēno mini twice rapidly.
- For a right-click (Windows) or control-click (Macintosh), hold the stylus (without moving it) to the ēno mini for one second.
- To page up or down through a document, tap the previous or next arrow control icon.

Using the on-screen keyboard

To enter text in a dialog box or other projected window using the stylus on the Ēno mini:

NOTE:

Macintosh operating systems require that the keyboard is enabled before it can be recognized by the PolyVision driver.

1. Tap the keyboard control icon.
2. Tap the Ēno mini to place the cursor where you want to enter text.
3. To enter text, tap keys on the on-screen keyboard.
4. To move the keyboard, drag the title bar to another location.
5. To close the keyboard, tap the “close” button at the upper corner of the window or choose Keyboard again.

Writing and erasing with Ēno mini

When you use Ēno mini for writing, the stylus is in contact with the Ēno mini and the “ink” appears on the computer screen.

To write and erase using Ēno mini:

1. Tap the pen/cursor control icon, if necessary, to toggle between writing or cursor control.
2. Choose a pen color and pen width by tapping a control icon.
3. Write with the stylus on the Ēno mini to annotate the computer screen or computer projection.

To erase:

1. Tap the eraser control icon.
2. Swipe over the items you want to erase.

Or,

1. Tap the erase all control icon to erase all writing.

The control icons include a small selection of the 54 available pen, highlighter, and eraser styles.

To choose from the palette of 54 pen, highlighter, or eraser options:

1. Tap the palette control icon.

2. Tap an option to select it.
3. Begin writing on the Ēno mini.

NOTE:

The PolyVision driver enables you to configure the red control icon to use the spotlight or reveal functions. To change the function of the red control icon, refer to "Spotlight and reveal options" on page 65.

Printing and saving

To preserve and distribute your work, you can print or save everything you see on the computer or the projected computer screen.

To print:

- Tap the print control icon. A snapshot goes to the printer connected to the computer.

To save:

- Tap the save control icon. A snapshot file is added to the computer in the "MyDocuments" folder (Windows) or "Documents" folder (Macintosh). You can change the default file type and destination. Refer to "Save options" on page 58.

NOTE:

The PolyVision driver enables you to configure the default printer, the saved file type, and the saved file location. Refer to "Configuring PolyVision driver options" on page 56.

Multiple Ēno mini users

The Ēno mini provides a cordless, mobile experience for collaboration with others who are interacting with the same computer. To participate, simply pair up to three Ēno styli to the same computer. Then each Ēno mini and stylus shares control of the computer so multiple participants can collaborate without crowding around the computer mouse.

When the computer is projected on a wall or screen, multiple participants, each with their own Ēno mini and stylus, can write or navigate through documents, presentations, or websites. Each participant can provide input from anywhere in the room using their Ēno mini and stylus. Each Ēno user has equal control of the computer.

In a room that has both the ēno interactive whiteboard and ēno mini, up to three participants can collaborate equally from the ēno whiteboard and from the ēno mini. This creates an interactive environment where some participants work from the whiteboard and others are free to work from their chair or move about the room.

Each user has equal control. All participants can write at the same time using a unique pen color and pen width. When one participant taps the pen/cursor control icon, all styli toggle between the pen and cursor functions. Only one stylus at a time can control the cursor.

Using Walk-and-Talk products

What are Walk-and-Talk products?

Walk-and-Talk products include:

- Walk-and-Talk interactive whiteboards (WT)
- Walk-and-Talk Lightning™ interactive whiteboards (WTL)
- Walk-and-Talk Interactive Panels (IP)

Walk-and-Talk products provide cordless interactivity from anywhere in the room using a remote control. Walk-and-Talk interactive whiteboards enable you to:

- write with dry-erase markers and print or save your work
- use the whiteboard as a touch-screen for your computer that you control using your finger
- move freely about the room using the remote control to navigate documents, presentations, or web pages, and to annotate the computer screen with writing
- annotate the projected computer screen on the whiteboard with your finger, and print or save your work



With the PolyVision driver installed on your computer, you can write with dry-erase markers then print and save your work. When your computer is connected to a projector, your Walk-and-Talk product becomes a touch-screen monitor for your computer. (The IP models always operate this way.) You can control your computer using your finger (or the stylus for IP

models), or you can roam freely about the room and operate your computer using the remote control touch pad and buttons.

To minimize cables in your working environment, Walk-and-Talk interactive whiteboards (WT and WTL) include two wireless options. The Walk-and-Talk Wireless option provides infrared wireless communication between your interactive whiteboard and your computer. (Refer to "Appendix 2: Using Walk-and-Talk Wireless (IR)" on page 75.) The Walk-and-Talk BT option provides Bluetooth wireless communication between your interactive whiteboard and your computer. (Refer to "Appendix 4: Using the WT or TS 600 BT (Bluetooth) option" on page 83.)

Refer to separate manuals for information about installing these products.

Getting started with Walk-and-Talk

PolyVision provides easy access to the PolyVision driver which is installed on the computer that interacts with Walk-and-Talk.

To get started using your Walk-and-Talk interactive device:

1. Make sure the whiteboard is plugged in and turned on, if necessary.
2. Make sure the PolyVision driver is installed on the computer connected to the Walk-and-Talk interactive device. Refer to "PolyVision driver installation for Walk-and-Talk products" on page 28.
3. To write or draw on the WT or WTL whiteboard, choose a dry-erase marker and write or draw. (Refer to "Using dry-erase markers with WT and WTL whiteboards" on page 38.)
4. To erase, use only the battery-operated Walk-and-Talk eraser provided. (Refer to "Using dry-erase markers with WT and WTL whiteboards" on page 38.)
5. To write and erase using the Walk-and-Talk IP, use the stylus provided. (Refer to "Writing in projection mode" on page 39.)
6. To print a snapshot of the whiteboard, press Print on the remote control. (Refer to "Printing and saving" on page 41.)
7. To save a snapshot of the whiteboard as a file on the computer, press Save on the remote control. (Refer to "Printing and saving" on page 41.)

8. To project your computer on the WT or WTL whiteboard so you can navigate documents, presentations, or websites, press the Projection button on the remote. (Refer to "Using Walk-and-Talk in projection mode" on page 30.)
9. To toggle between cursor control or writing in projection mode, press the Pen/Cursor button on the remote control. (Refer to "Cursor control in projection mode" on page 37.)
10. To annotate the computer projection on the whiteboard, write with your finger over the computer projection. (Refer to "Writing in projection mode" on page 39.)
11. To navigate the computer from the whiteboard, use your finger as the mouse on the whiteboard. (Refer to "Cursor control in projection mode" on page 37.)
12. To navigate the computer using the remote control, use your finger on the touch pad. (Refer to "Cursor control in projection mode" on page 37.)

NOTE:

The Walk-and-Talk IP always operates in projection mode using a stylus.

PolyVision driver installation for Walk-and-Talk products

If the PolyVision driver is not installed on the computer you want to use with Walk-and-Talk, install the driver.

The PolyVision driver is always close at hand. You need no installation disk or CD-ROM. Installing the PolyVision driver takes place when you connect the PolyKey on the Walk-and-Talk USB cable to your computer's USB port.

Your Windows-based computer must have:

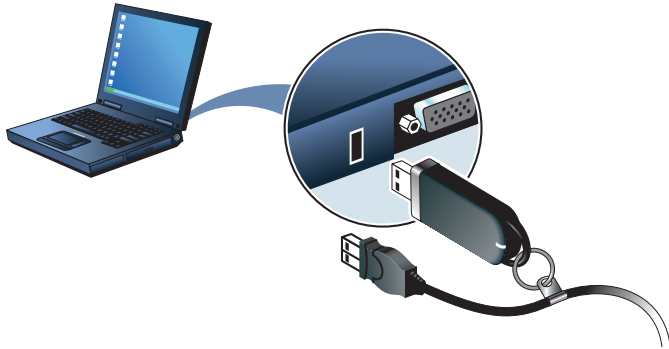
- Windows 2000, XP, Tablet XP, or Vista
- VGA HD-15 video port for projectors or interactive panels
- One USB port (two for the interactive panel)

Your Macintosh computer must have:

- PowerPC G3 or higher or Intel-based processor
- Mac OS 10.2 or higher
- VGA HD-15 video port for projectors or interactive panels
- One USB port (two for the interactive panel)

To install the PolyVision driver on your computer:

1. Locate the PolyKey on the USB cable.
2. Connect the PolyKey on the USB cable to your computer's USB port.



3. Installation should begin automatically. If it does not:
Windows: double-click "My Computer" on your desktop and double-click the removable disk drive named "PolyKey." Installation begins.
Macintosh: double-click the PolyKey icon on your desktop, double-click the Macintosh folder, and double-click "PolyVision driver installation." Installation begins.
4. Follow the prompts you see on the screen to complete the installation. On a Macintosh, you must re-boot your system.

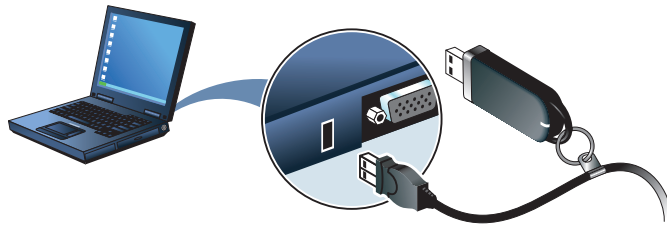
When installation is complete, a message appears on your computer screen and the PolyVision driver icon appears in your system tray (Windows) or system menu (Macintosh).

Connect the Walk-and-Talk USB cable

To start using your Walk-and-Talk interactive products:

1. Remove the PolyKey from the computer USB port.

2. Connect the USB cable to your computer's USB port and the other cable end to the Walk-and-Talk product.



The PolyVision driver runs unobtrusively in the background whenever your computer is on and connected to the Walk-and-Talk product.

If you are using the Walk-and-Talk wireless option, refer to "Appendix 2: Using Walk-and-Talk Wireless (IR)" on page 75. If you are using the WT BT (Bluetooth) option, refer to "Appendix 4: Using the WT or TS 600 BT (Bluetooth) option" on page 83.

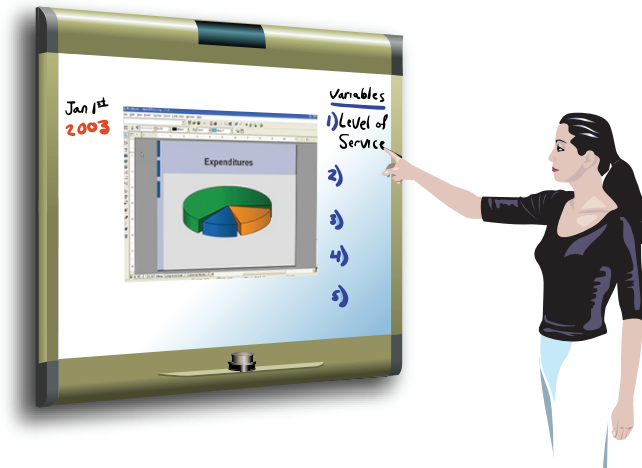
Using Walk-and-Talk in projection mode

While using Walk-and-Talk with a projector connected to your computer, a variety of powerful options becomes available.

In projection mode, the interactive whiteboard becomes a touch-sensitive monitor for your computer. You can:

- control your computer from the whiteboard or roam freely about the room and interact with the computer using the remote control
- run slide presentations and other software
- annotate your computer desktop with writing or drawing

- print and save everything



NOTE:

Projection mode is an option for Walk-and-Talk interactive whiteboards (WT and WTL), but the Walk-and-Talk interactive panel (IP) always operates in projection mode.

To enter projection mode:

1. Connect your computer to the projector and turn on the projector, the whiteboard, and the computer.
2. **WTL whiteboards:** Assure that at least half of the projected image is actually projected onto the board.

WT whiteboards: Move the projector physically so that the entire solid-colored background is positioned inside the borders of the whiteboard.

3. Press the "Projection" button on the remote control one time. The following alignment window projects from the computer to the board.



4. Using your finger, touch each target as it appears on the whiteboard, following instructions you see in the screen.

When alignment is complete, you are ready to begin using your computer and whiteboard in projection mode.

NOTE:

The Projection LED at the lower left corner of the board glows yellow while you are in projection mode.

NOTE:

At startup, the PolyVision driver recognizes if you are using the IP and automatically initiates projection mode. No alignment is necessary.

To exit projection mode:

- Press the Projection button on the remote control.

The alignment between your projector and the PolyVision product is important. PolyVision offers three levels of alignment: good, better, best. The default is "best" alignment. If you need to change the correspondence between the position of the cursor and the point of contact when you tap the whiteboard, refer to "Choosing alignment accuracy" on page 63.

Operating Walk-and-Talk products

Remote control options

The Walk-and-Talk remote control operates at a distance of up to 40 feet (12 m) from Walk-and-Talk products.

Always point the remote control toward the infrared receiver:

- at the top of the interactive whiteboard
- at the remote control receiver that comes with your IP.

The remote control functions equally well from these locations:

- Carry the remote control with you using the wrist or neck lanyard provided.
- Place the remote control near you on a desk or table top pointed toward the infrared receiver.
- In projection mode, you can configure the PolyVision driver to project an on-screen remote control that you use by tapping the buttons with your finger. (Refer to "Using on-screen tools" on page 65.)

Remote control functions

Erase All

Erase everything and start fresh. All writing, in dry-erase marker or projection mark-up, is erased from memory.

Ink Color

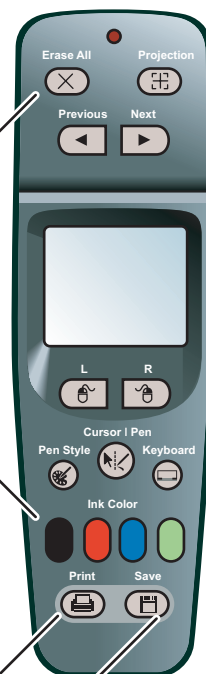
To write on the board, choose a dry-erase pen and press the button that matches the color. In projection mode, press one of these buttons to quickly change the color of mark-ups.

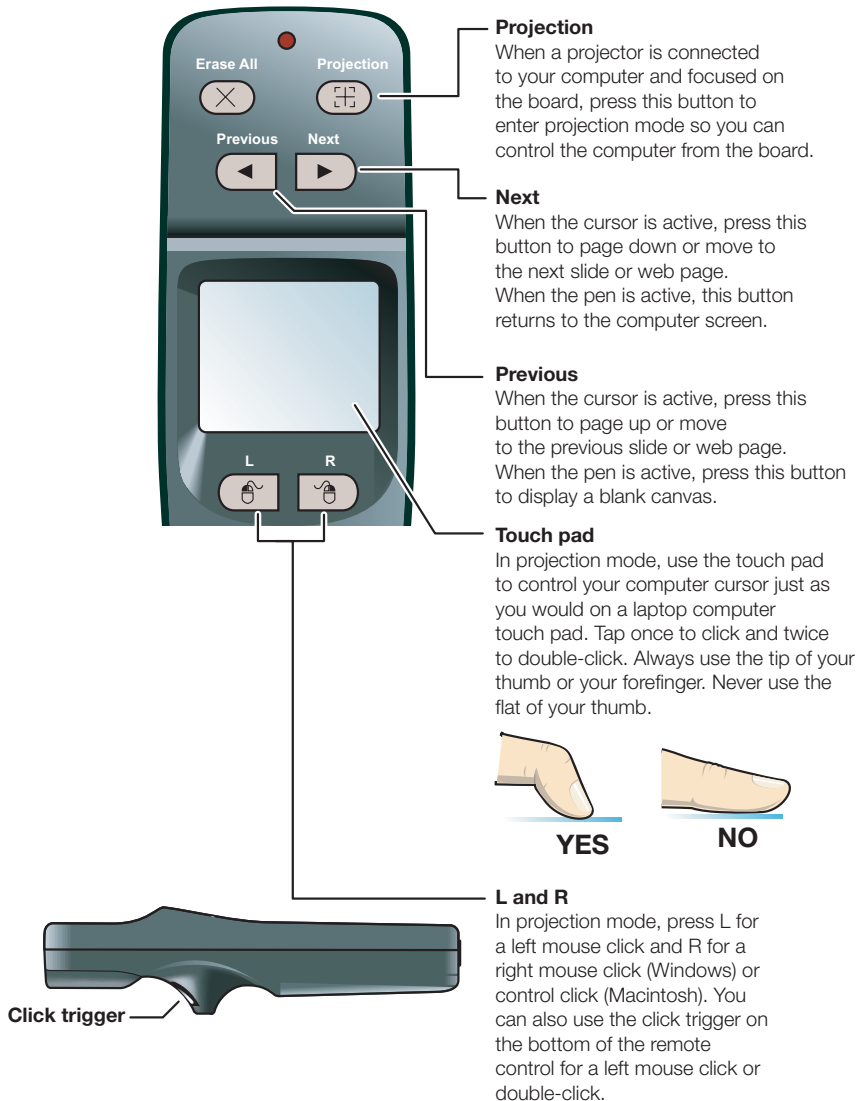
Print

Print a snapshot of the board using the default printer connected to your computer.

Save

Save a snapshot of your board as a file on your computer. The file can be in PDF, JPEG, TIFF, PNG, BMP and other formats.



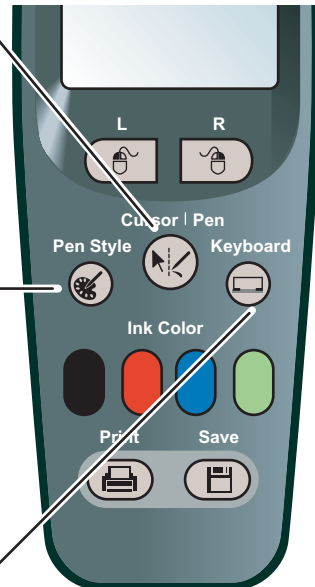


Cursor/Pen

In projection mode, press this button to toggle between controlling the cursor and marking-up the image.

Pen Style

Press this button in projection mode to choose a new type of mark-up pen (color, width, and style).



Keyboard

In projection mode, press this button to toggle on and off the display of the on-screen keyboard. You can use the keyboard to enter text at the current text cursor position. Drag the keyboard to move it.

Cursor control in projection mode

You can use your finger as both a pen or cursor in projection mode.

Walk-and-Talk enables you to write or to navigate the projected computer screen using either:

- your finger on the whiteboard
- the remote control buttons and touch pad

NOTE:

If you use the Walk-and-Talk IP, use the remote control or the stylus.

To toggle between writing and cursor control:

- press Cursor/Pen on the remote control

While using your finger as a cursor to control the computer from the whiteboard:

- To click, tap the whiteboard once.
- To double-click, tap twice rapidly.
- For a right-click (Windows) or control-click (Macintosh), hold your finger to the whiteboard for one second.

To operate your computer with the remote control, point it toward the infrared receiver on the Walk-and-Talk:

- To click or double-click, press the “L” button or the click trigger, or tap the touch pad on the remote control once or twice.
- For a right-click (Windows) or control-click (Macintosh), press the “R” button on the remote control.
- To page up or down through a document, press the “Next” or “Previous” button (for example, if PowerPoint is the active window, press “Next” to move to the next slide).

For IP models, control your computer using remote control, or use the stylus on the IP:

- To click, tap the panel once.
- To double-click, tap the panel twice rapidly or hover the stylus over the display and press the stylus button furthest from the tip.
- For a right-click (Windows) or control-click (Macintosh), hold the stylus to the panel for one second, or hover the stylus over the panel and press the stylus button near the tip.

When using the stylus provided with IP models, the stylus does not need to touch the display. It operates when the stylus is hovering within an inch or so of the display.

Using the on-screen keyboard

To display your operating system's on-screen keyboard so you can enter text in a dialog box or other projected computer window using your finger on the whiteboard:

NOTE:

Macintosh operating systems require that the keyboard is enabled before it can be recognized by the PolyVision driver.

1. Press Keyboard on the remote control.
2. Tap the board to place the cursor where you want to enter text.
3. To enter text, tap keys on the on-screen keyboard.
4. To move the keyboard, drag the title bar to another location.
5. To close the keyboard, tap the "close" button at the upper corner of the window or choose Keyboard again.

Using dry-erase markers with WT and WTL whiteboards

Walk-and-Talk sends writing and erasing data to your computer by detecting a single point of pressure. Whenever you write on the Walk-and-Talk, make sure there is only one point of contact at a time.

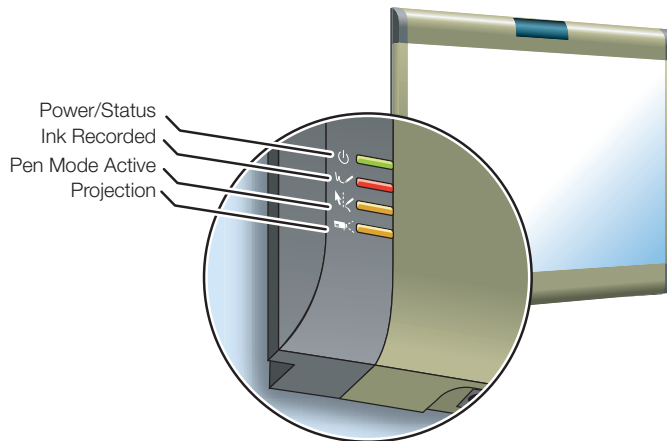
Use standard dry-erase markers to write on the WT and WTL whiteboard. To specify the color that is recorded in the software for printing and saving, press the corresponding ink color button on the remote control.

To write on the board so you can save or print:

1. Choose a dry-erase marker.
2. Press one of the ink color buttons on the remote control to specify the color that is recorded in the software. A selected ink color (or eraser) stays in effect until you select a different one.
3. Write on the board.

When you choose an ink color and write, sounds from the board provide audible feedback to confirm that the software is recording. While you write,

the red “Ink Recorded” LED glows to indicate that the computer is detecting your writing.



Erase the board using the large circular felt eraser provided. The battery-operated eraser sends infrared data to the computer through the whiteboard.

Refer to "Writing in projection mode" on page 53 for information about writing and erasing when your computer screen is projected on the whiteboard.

NOTE:

Use only the recommended markers and erasers. The WT and WTL whiteboard surface can be damaged by sharp objects, such as ballpoint pens and rulers. Scratches can cause permanent ink stains and data loss due to electrical malfunctions.

Writing in projection mode

In projection mode, WT and WTL interactive whiteboards provide two types of writing that you can print and save:

- writing on the whiteboard using dry-erase markers
- annotating the projected computer screen using your finger for computer-projected “ink.”

NOTE:

For IP models, you use the stylus for all writing.

While in projection mode, you can annotate the projected computer screen by drawing, highlighting, and writing on the whiteboard. This type of writing is part of the projected image, not physical ink.

To annotate the projected computer image:

1. Press the “Cursor | Pen” button on the remote control. The cursor changes from an arrow to a pen.



2. Write over the projected computer image using your finger.

To change the pen style:

- Press the black, red, blue, or green Ink Color button on the remote control.
- To choose from 54 unique pen styles, press the Pen Style button on the remote control. Tap an option in the palette. The palette closes and the new pen style appears in future writing.

NOTE:

The PolyVision driver provides the option to change the function of the Red icon to two other alternative functions: spotlight or reveal. These options are available in Projection mode only. To change the Red control icon, refer to "Spotlight and reveal options" on page 65.

Erasing in projection mode

To erase writing in projection mode, you have these choices:

- Erase with the circular battery-operated eraser provided with the WT and WTL whiteboard.

- Press the Pen Style button on the remote control, tap an eraser option in the palette, and then erase with your finger.
- Press the Erase All button on the remote control to erase all writing from the computer memory and start fresh.

Writing and erasing with IP models

The Walk-and-Talk Interactive Panel (IP) sends data to your computer by detecting the battery-operated stylus as you write or erase across the panel. The stylus can act as a mouse to control the computer cursor or as a pen to mark-up the projected computer screen. Do not use dry-erase markers with these products.

To toggle between writing and cursor control:

- Press the Cursor/Pen button on the remote control.

To specify the color for writing:

1. Press the Pen Style button on the remote control. A palette of options appears in the display screen.
2. Tap one of the pen styles in the palette options. The palette closes.

To erase:

1. Press the Pen Style button on the remote control. A palette of options appears in the display screen.
2. Tap the small or large eraser. The palette closes.
3. Erase using the stylus.

To erase everything you have written or drawn:

- Press the Erase All button on the remote control.

A selected pen color (or eraser) stays in effect until you select a different one.

Printing and saving

The PolyVision driver enables Walk-and-Talk interactive products to capture an image of the whiteboard by printing or saving it as a file on your computer. Everything you see on the whiteboard is captured in the snapshot.

You can print a snapshot of the whiteboard at any time.

To print:

- Press Print on the remote control.

Walk-and-Talk sends the image to the default printer connected to your computer.

To save a snapshot of the whiteboard in a graphics file on your computer:

- Press the Save button on the remote control.

A graphics file is added to the "MyDocuments" folder (Windows) or "Documents" folder (Macintosh). You can specify the graphics file type and location of the saved file in the PolyVision driver configuration options (refer to "Save options" on page 58).

Multiple Walk-and-Talk users

If your room includes multiple Walk-and-Talk products, you can operate up to three of them with the same computer and remote control. Multiple devices can be associated with the same computer, but multiple computers cannot be associated with one device.

One remote control can operate up to three Walk-and-Talk products connected to your computer, but only one at a time. To determine which product is active, the remote control includes a three-position switch on the left side.



Three-position switch (A/B/C)

By default, your Walk-and-Talk product responds to the remote control whether it is set to A, B, or C. However, if you use multiple Walk-and-Talk products with the same remote control, you must configure the PolyVision driver to assign one remote control switch position to each device.

To use multiple devices:

1. Connect the devices to your computer's USB ports.

2. Click the PolyVision driver icon in the system tray (Windows) or the system menu bar (Macintosh).
3. Choose "Configure the PolyVision driver" from the menu. Refer to "Configuring PolyVision driver options" on page 56.
4. Click the "Hardware" tab.
5. Click "Change Remote ID."
6. Slide the switch on the remote to position "A."
7. Point the remote to one device and click "Projection."
8. Repeat for up to two additional devices connected to your computer, choosing the "B" and "C" switch positions on the remote control.

When a device has been assigned the A, B, or C position on the remote control switch, it remains associated with that switch position until you change the connections to your USB ports, even if you re-boot your computer or attach the Walk-and-Talk product to another computer.

Using Walk-and-Talk products with multiple monitors

The PolyVision driver supports up to three projectors on the same computer showing separate parts of the computer's desktop. You may need to add an additional video card(s) to use multiple projectors.

Since all the PolyVision products connected to your computer are communicating via the PolyVision driver, you have the option of pointing the remote at the active device or at the most convenient of the communicating devices.

To use the remote control with multiple devices:

1. Write or project a computer display on any or all of the connected devices.
2. To capture a snapshot or use other remote control functions, slide the switch to the position that matches the device you want to capture or operate.
3. Point the remote to any of the Walk-and-Talk products and press the desired button. Any of the connected devices can receive infrared commands from your remote, but the function will take place only on the device that is associated with the remote control.

Snapshots that you save on your computer with multiple products connected continue to be numbered sequentially, regardless of which product is captured.

Each PolyVision product operates independently, so device “A” can capture a red marker while device “B” captures a blue marker.

Using TS and TSL interactive whiteboards

What are TS products?

PolyVision offers these TS whiteboards:

- TS Interactive Whiteboard (TS)
- TS Lightning Interactive Whiteboard (TSL)

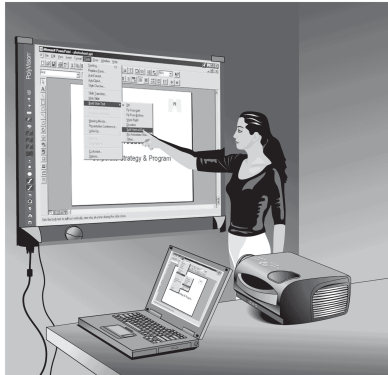
PolyVision's **TS** (touch sensitive) interactive whiteboard provides a touch-sensitive surface where you can interact with a computer. TS interactive whiteboards enable you to:

- write with dry-erase markers and print or save your work
- use the whiteboard as a touch-screen for your computer to navigate documents, presentations, or web pages using your finger as the mouse
- annotate the projected computer screen on the whiteboard with your finger and print or save your work

With the PolyVision driver installed on your computer, you can write with dry-erase markers then print and save your work. When your computer is connected to a projector, your TS whiteboard becomes a touch-screen monitor for your computer.

You can capture a snapshot of anything you write or project by tapping the Print or Save icon along the edge of the board. Your digital snapshot prints

on the default printer connected to your computer or it is saved as a file on your computer, just as a digital image from a camera would be.



To minimize cables in your working environment, TS whiteboards include two wireless options. The TS Wireless option provides infrared wireless communication between your interactive whiteboard and your computer. (Refer to "Appendix 3: Using the TS Wireless option (IR)" on page 78.) The TS BT option provides Bluetooth wireless communication between your TS 600 model whiteboard and your computer. (Refer to "Appendix 4: Using the WT or TS 600 BT (Bluetooth) option" on page 83.)

Refer to separate manuals for information about installing these products.

Getting started with TS interactive whiteboards

To get started using your TS interactive whiteboard:

1. Make sure the whiteboard is plugged in and turned on, if necessary.
2. Make sure the PolyVision driver is installed on the computer connected to the TS interactive whiteboard. (Refer to "PolyVision driver installation for TS whiteboards" on page 47.)
3. To write or draw on the TS whiteboard using a dry-erase marker, choose a marker and write or draw. (Refer to "Using dry-erase markers with TS whiteboards" on page 52.)
4. To print a copy of the whiteboard, tap the Print icon on the whiteboard. (Refer to "Printing and saving" on page 54.)

5. To save a copy of the whiteboard as a file on the computer, tap the Save icon on the whiteboard. (Refer to "Printing and saving" on page 54.)
6. To project your computer on the TS or TSL whiteboard so you can navigate documents, presentations, or the web, tap the Projection icon on the whiteboard. (Refer to "Using TS whiteboards in projection mode" on page 48.)
7. To toggle between cursor control or writing in Projection Mode, tap the Pen/Cursor icon on the whiteboard. (Refer to "Cursor control in projection mode" on page 52.)
8. To annotate the computer projection, write with your finger over the computer projection on the whiteboard. (Refer to "Writing in projection mode" on page 53.)
9. To navigate the computer from the whiteboard, use your finger as the mouse on the whiteboard. (Refer to "Cursor control in projection mode" on page 52.)

PolyVision driver installation for TS whiteboards

If the PolyVision driver is not installed on the computer you want to use with Walk-and-Talk, install the driver.

Your Windows-based computer must have:

- Windows 2000, XP, Tablet XP, or Vista
- VGA HD-15 video port for projectors or interactive panels
- One USB port (two for the interactive panel)

Your Macintosh computer must have:

- PowerPC G3 or higher or Intel-based processor
- Mac OS 10.2 or higher
- VGA HD-15 video port for projectors or interactive panels
- One USB port (two for the interactive panel)

To install the PolyVision driver:

1. Locate the installation CD provided with your whiteboard.
2. Insert the CD into your computer disk drive.

3. Installation should begin automatically. If it does not:
Windows: double-click "My Computer" on your desktop, double-click the disk drive named "PolyVision," double-click the Windows folder, and double-click "PolyVision driver installation." Installation begins.
Macintosh: double-click the PolyVision icon on your desktop, double-click the Macintosh folder, and double-click "PolyVision driver installation." Installation begins.
4. Follow the prompts you see on the screen to complete the installation. On a Macintosh, you must re-boot your system.

When installation is complete, a message appears on your computer screen and the PolyVision driver icon appears in your system tray (Windows) or system menu (Macintosh).

NOTE:

If you are using the TS wireless option, refer to "Appendix 3: Using the TS Wireless option (IR)" on page 78. If you are using the TS 600 BT (Bluetooth) option, refer to "Appendix 4: Using the WT or TS 600 BT (Bluetooth) option" on page 83.

Using TS whiteboards in projection mode

While using TS whiteboards in projection mode, with a projector connected to your computer, powerful options become available.

In projection mode, the whiteboard becomes a touch-sensitive monitor for your computer. You can:

- control your computer from the touch-sensitive whiteboard
- run slide presentations and other software
- annotate the projected computer with writing or drawing
- print and save everything

To enter projection mode:

1. Connect your computer to the projector and turn on the projector, the whiteboard, and the computer.
2. **TSL whiteboards:** Assure that at least half of the projected image is actually projected onto the board.

TS whiteboards: Move the projector physically so that the entire solid-colored background is positioned inside the borders of the

whiteboard.

3. Tap the Projection icon on the board one time. The following alignment window projects from the computer to the board.



4. Using your finger, touch each target as it appears, following instructions you see in the screen.

When alignment is complete, you are ready to begin using your computer and whiteboard in projection mode.

To exit projection mode:

- Tap the Projection icon again.

The alignment between your projector and the PolyVision product is important. PolyVision offers three levels of alignment: good, better, best. The default is "best" alignment. If you need to change the correspondence between the position of the cursor and the point of contact when you tap the whiteboard, refer to "Choosing alignment accuracy" on page 63.

Operating TS interactive whiteboards

The TS icon strip






















The TS whiteboard includes icons that you tap with your finger to interact with your computer.

You can access these functions of the TS icons in two ways:

- tapping the icon strip on the whiteboard with your finger
- by configuring the PolyVision driver to project on-screen control icons in a window that you can drag around the screen, then tap the icons using your finger (Refer to "Using on-screen tools" on page 65.)

The icon functions are described below.

TS icon Operation

	Toggles "projection mode" on and off. The first use starts the onscreen alignment (calibration) process.
	Goes to the previous PowerPoint slide or PgUp.
	Goes to the next PowerPoint slide or PgDown.
	Displays the on-screen keyboard.
	Toggles between writing and cursor control.
	Displays all pen size and color options.
	The current pen color for writing on the board.
	
	
	
	
	The current pen width.
	
	
	Sets the pen to a solid line.
	Sets the pen to a dashed line.
	Small eraser width using the pen.
	Large eraser width using the pen.
	Clears all the writing.
	Prints a copy of the whiteboard.
	Saves a copy of the whiteboard.

Cursor control in projection mode

You can use your finger as both a pen or a cursor in projection mode.

When you want to control your computer from the whiteboard:

- To click, tap the whiteboard once.
- To double-click, tap twice rapidly.
- For a right-click (Windows) or control-click (Macintosh), hold your finger to the whiteboard for one second.
- To page up or down through a document, tap the “Next” or “Previous” icon (for example, if PowerPoint is the active window, tap “Next” to move to the next slide).

Using the on-screen keyboard

To display your operating system's on-screen keyboard so you can enter text in a dialog box or other projected computer window using your finger on the whiteboard:

NOTE:

Macintosh operating systems require that the keyboard is enabled before it can be recognized by the PolyVision driver.

1. Tap the Keyboard icon.
2. Tap the board to place the cursor where you want to enter text.
3. To enter text, tap keys on the on-screen keyboard.
4. To move the keyboard, drag the title bar to another location.
5. To close the keyboard, tap the “close” button at the upper corner of the window or choose Keyboard again.

Using dry-erase markers with TS whiteboards

TS and TSL whiteboards send writing and erasing data to your computer by detecting a single point of pressure. Whenever you write on the whiteboard, make sure there is only one point of contact at a time.

NOTE:

Use only the recommended markers and erasers. The TS and TSL whiteboard surface can be damaged by sharp objects, such as ballpoint

pens and rulers. Scratches can cause permanent ink stains and data loss due to electrical malfunctions.

Use standard dry-erase markers to write on the TS and TSL whiteboard. To specify the color that is recorded in the software, tap the corresponding ink color icon on the icon strip.

To write on the board so you can save or print:

1. Choose a dry-erase marker.
2. Tap one of the ink color buttons on the icon strip to specify the color that is recorded in the software. A selected ink color (or eraser) stays in effect until you select a different one.
3. Write on the board.

The active ink color is indicated by the LED next to the ink color icon on the board. The default ink color recorded in the software is black. To change the default color at startup, refer to "Configuring PolyVision driver options" on page 56.

When you choose an ink color and write, sounds from the board provide audible feedback to confirm that the software is recording.

Erase the board using the large circular felt eraser provided, or using your finger for small erasures.

To record erasures for printing or saving:

- Tap the Small or Large Eraser icon on the board before you erase.

Refer to "Writing in projection mode" on page 53 for information about writing when your computer screen is projected on the whiteboard.

Writing in projection mode

In projection mode, TS and TSL interactive whiteboards provide two types of writing that you can print and save:

- writing on the whiteboard using dry-erase markers
- writing over the projected computer screen using your finger for computer-projected "ink."

While in projection mode, you can annotate the projected computer screen by drawing, highlighting, and writing on the whiteboard. This type of writing is part of the projected image, not physical ink.

To annotate the projected computer:

1. Tap the “Pen/Cursor” icon on the board. The cursor changes from an arrow to a pen. (To return to mouse operations, tap the “Pen/Cursor” icon on the board again.)
2. Write over the projected computer image using your finger.

To change the pen style:

- Tap the black, red, blue, or green Ink Color icon on the whiteboard.
- To choose from 54 unique pen styles, tap the Pen Style icon on the whiteboard, and tap an option in the palette. The palette closes and the new pen style appears in future writing.

NOTE:

The PolyVision driver provides the option to change the function of the Red icon to two other alternative functions: spotlight or reveal. These options are available in Projection mode only. To change the Red control icon, refer to "Spotlight and reveal options" on page 65.

Erasing in projection mode

To erase computer-projected annotations while you are in projection mode you have these choices:

- Erase using the eraser provided with the whiteboard.
- Tap the Pen Style icon on the whiteboard, tap an eraser option in the palette, and then erase with your finger.
- Tap the Erase All icon to erase everything and start fresh.

Printing and saving

The PolyVision driver enables the TS and TSL interactive whiteboard to capture your notes by printing them or saving them as a file on your computer.

You can print a snapshot of the whiteboard at any time.

To print:

- Tap the Print icon on the whiteboard.

TS sends the image to the default printer connected to your computer.

To save a snapshot of the whiteboard in a graphics file on your computer:

- Press the Save button on the remote control.

A graphics file is added to the "MyDocuments" folder (Windows) or "Documents" folder (Macintosh). You can specify the graphics file type and location of the saved file in the PolyVision driver configuration options (refer to "Save options" on page 58).

The PolyVision driver

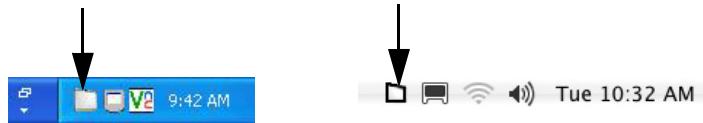
The PolyVision driver is always available and running in the background after you install it on your computer.

Configuring PolyVision driver options

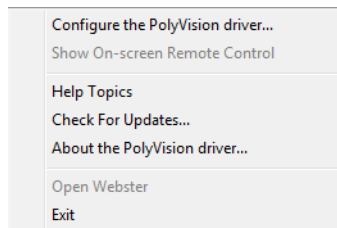
The PolyVision driver is ready to use as soon as it is installed. However, you can change the default options at any time.

To configure PolyVision driver options:

1. Click the PolyVision driver icon in the system tray (Windows) or system menu bar (Macintosh).



2. The PolyVision driver menu appears.



3. Choose "Configure the PolyVision driver." The Configure Options dialog box appears.

Options are organized in tabs. Each tab includes these buttons:

"Help": Click "Help" (Windows) or "?" (Macintosh) to view help information.

"OK": Click "OK" to save your changes and close the dialog box.

"Apply": Click "Apply" (Windows) to save your changes and leave the dialog box open.

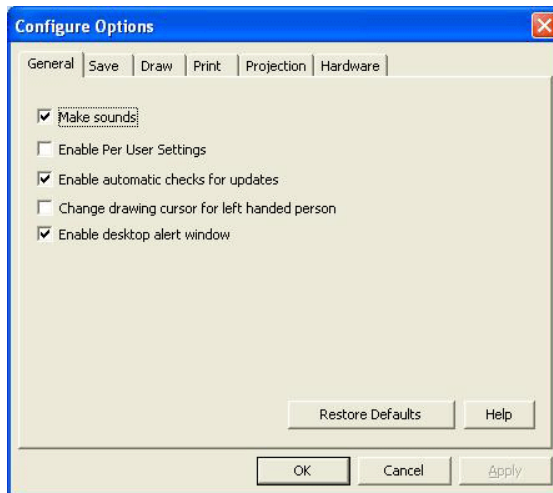
“Cancel”: Click “Cancel” to close the dialog box and make no changes to options.

“Restore Defaults”: Click “Restore Defaults” to restore factory defaults.

General options

To configure general options:

- Click the “General” tab. You see the following options:



“Make sounds”: Check this box to enable sounds as you press buttons on the remote, or sounds that indicate system status.

“Enable Per User Settings”: Check this box to save settings so they apply to individual users who connect to this board. When this box is unchecked, settings apply to all users.

“Enable automatic checks for updates”: Check this box if you want the PolyVision driver to connect automatically to the PolyVision web site and check for driver updates.

“Change drawing cursor for left handed person”: (Windows only)
Switches the cursor for ease-of-use for left-handed users.

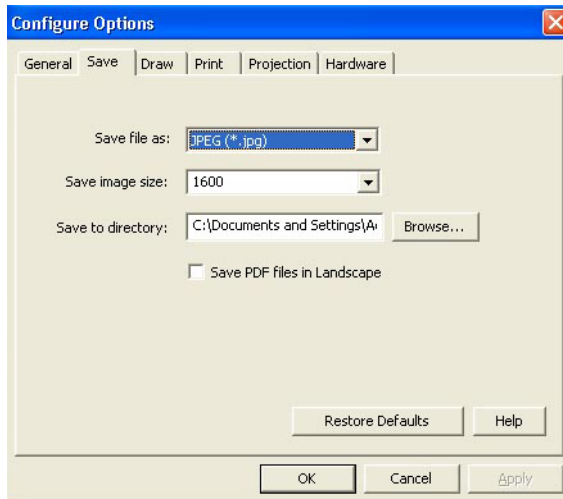
“Enable desktop alert window”: Check this box if you want to see an alert window appear on your computer desktop while you write or draw on the

device. The alert window shows what you are drawing. As soon as you stop drawing, the window fades off.

Save options

To configure Save options:

- Click the “Save” tab. You see these options:



“Save File As”: Specify the format of the snapshot file saved on your computer when you press “Save” on the remote control. Options include PDF, JPEG, TIFF, PNG, or BMP. In Windows, you can also save as GIF. On a Macintosh, you can also save as PICT, Photoshop, SGI, TGA, and Quicktime Image formats. By default, snapshot files are saved in JPEG format (Windows) or PDF (Macintosh). If you save PDF files, you can save them in portrait or landscape orientation. To save PDF files in landscape orientation, check the **“Save PDF files in landscape”** box.

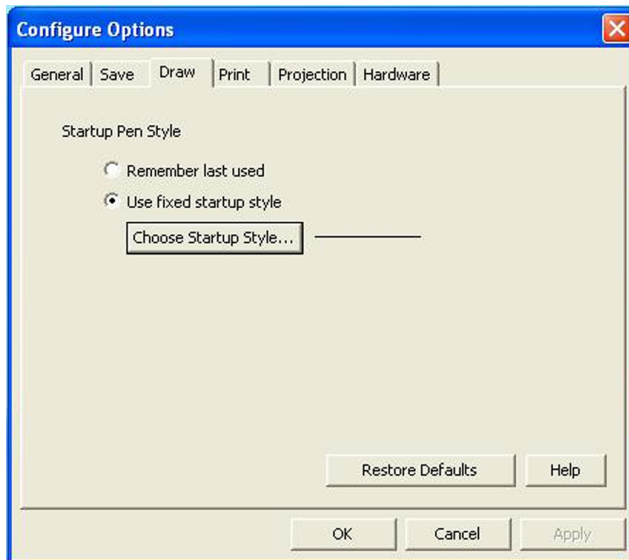
“Save image size”: Specify the width (in pixels) of the image that is created when you save. (The height is automatically determined by your whiteboard size.) Options include 2048, 1600, 1024, 800, and “Monitor Resolution” which saves images set to the width of your monitor.

“Save to Directory”: Specify the directory where snapshot files are saved. Click “Browse” to locate a directory. By default, snapshot files are saved to your “My Documents” (Windows) or “Documents” (Macintosh) folder.

Draw options

To configure pen options:

- Click the “Draw” tab. You see these options:

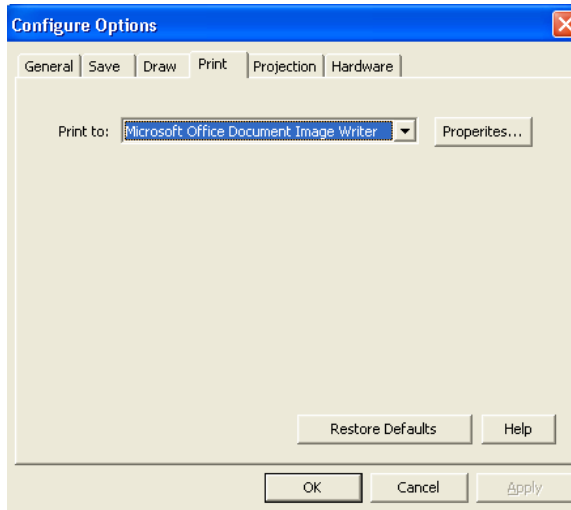


“Startup Pen Style”: To specify the pen style that is used when you start up the PolyVision driver on your computer, check “Remember Last Used.” Otherwise, click “Choose Startup Style.” The factory default pen style is a medium black line.

Print options

To configure print options:

- Click the “Print” tab. You see these options:

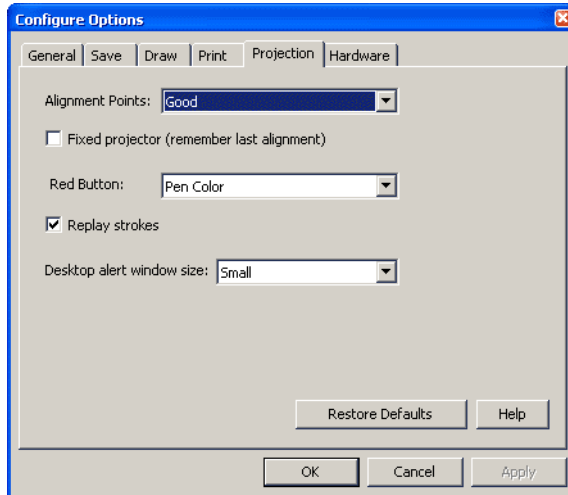


“**Print To**”: Specify the printer used when you press the “Print” button on the remote control. In Windows, the drop down list includes printers currently installed on your computer and you can click “Properties” to specify options for the selected printer. By default, the computer default printer is used.

Projection options

To configure projection alignment options that apply when your device enters projection mode:

- Click the “Projection” tab. You see these options:



“Alignment Points”: Choose between three levels of projection alignment: good, better, and best. The more points you choose, the more accurately the cursor will be controlled from the whiteboard in projection mode. (This option is not necessary for Walk-and-Talk or TS Lightning Interactive Whiteboards.)

“Fixed projector (remember last alignment)”: If your whiteboard and projector remain in the same positions, check this box to use the same projection alignment each time. No alignment screen displays when you enter projection mode if this box is checked.

“Red Button”: Choose an option from the drop-down list to change the function of the Red ink color. Options are: “Pen Color” for drawing with red ink; “Spotlight” for focusing attention on one part of the screen using a spotlight that you can drag around the screen; or “Reveal” for gradually revealing screen contents from top to bottom. Refer to “Spotlight and reveal options” on page 65.

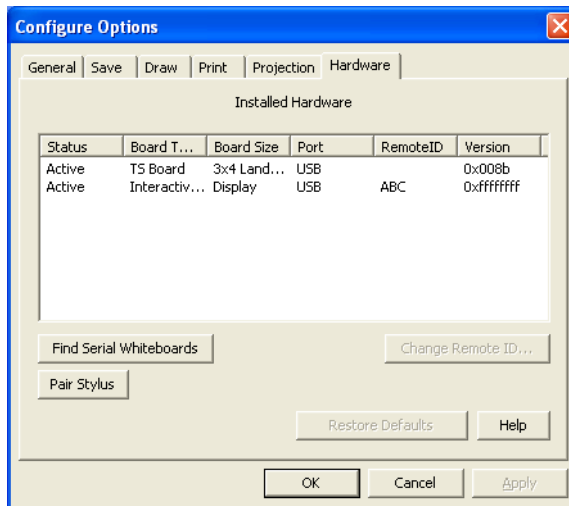
“Replay Strokes”: When you check this box, pen strokes are remembered when you switch from pen mode to cursor mode, and back to pen mode. Pen strokes accumulate until you erase all.

“Desktop alert window size”: If you have enabled the desktop alert window in the “General” tab, you can choose between a large or small alert windows size.

Hardware options

To configure hardware options:

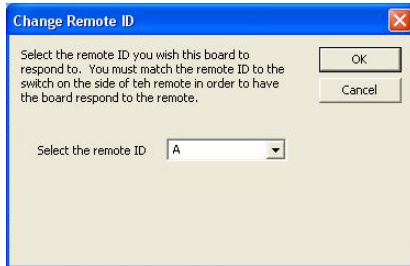
- Click the “Hardware” tab. You see these options:



“Installed Hardware”: The communicating PolyVision products and their status appear in the list.

“Change Remote ID”: (Walk-and-Talk models only) Click this button to assign one of the remote control slide switch settings to a whiteboard. The slide switch has three positions corresponding to “A,” “B,” or “C.” If you choose “A,” “B,” or “C,” the selected board responds to the remote control when the slide switch on the remote is in the corresponding position. If you choose “A/B/C” the board responds regardless of the position of the slide switch on the remote control. (Refer to “Operating Walk-and-Talk products” on page 33.)

To assign a slide switch position to one of the installed whiteboards on a Macintosh, select a board in the “Installed Hardware” list then click “Change Remote ID” repeatedly to cycle through “A,” “B,” “C,” or “A/B/C” until your choice is displayed by the hardware. In Windows, select a Walk-and-Talk product in the “Installed Hardware” list then click “Change Remote ID.” You see this dialog box:



Select the desired remote ID from the drop-down list. The default is A/B/C.

“Find Serial Whiteboards”: If a PolyVision product is connected to your computer via the serial port, Walk-and-Talk Wireless, TS Wireless, WT BT (Bluetooth), or TS 600 BT (Bluetooth), click this button to confirm communication between the computer and the product. When you click “Find Serial Whiteboards” the PolyVision driver searches all attached boards and adds them to the list. Refer to "Appendix 2: Using Walk-and-Talk Wireless (IR)" on page 75, "Appendix 3: Using the TS Wireless option (IR)" on page 78, or "Appendix 4: Using the WT or TS 600 BT (Bluetooth) option" on page 83.

Choosing alignment accuracy

The alignment between your projector and the PolyVision product is important. PolyVision offers three levels of alignment: good, better, best. The default is “best” alignment.

You might need to use more or fewer alignment points to improve the correspondence between the position of the computer cursor and the point of contact when you tap the PolyVision product. (Some video projectors, for instance, do not produce a linear display when projection with keystone correction is used.)

To change the number of alignment points:

1. Click the PolyVision driver icon in your computer system menu bar or system tray (refer to "Configuring PolyVision driver options" on page 56).
2. Click the "Projection" tab.
3. Choose the alignment type from the drop-down list.

Proceed as usual to enter projection mode or re-align while in projection mode. Follow the alignment instructions that are projected on your product.

Using on-screen tools

In projection mode, you can operate your interactive product using an on-screen tool window.

To use the on-screen tool:

1. Click the PolyVision driver icon in the system tray (Windows) or system menu (Macintosh). The PolyVision driver menu appears.
2. Choose "Show On-Screen Remote Control" from the menu to toggle on and off the display of a functional on-screen tool window that you can drag to a convenient location.

Spotlight and reveal options

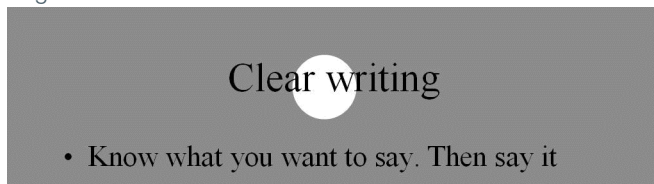
In projection mode, the red ink option has three possible functions which you can configure:

- red pen color for writing
- spotlight
- reveal

Spotlighting your work

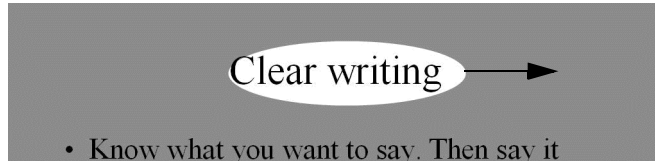
To use the spotlight:

1. Configure the red pen for the spotlight option. Refer to "Projection options" on page 61.
2. Choose red ink. The screen becomes grayed except one circle of light.

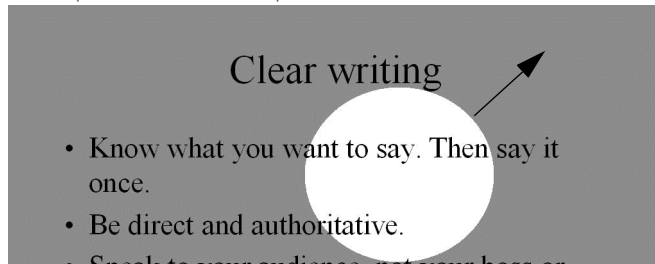


3. Drag the spotlight around the screen to focus attention on that portion of the screen.

4. To re-shape the spotlight into an ellipse, drag the circle from any of the four cardinal points around the edge of the circle.



5. To enlarge or shrink the circle, drag it from any point around the edge except the four cardinal points.



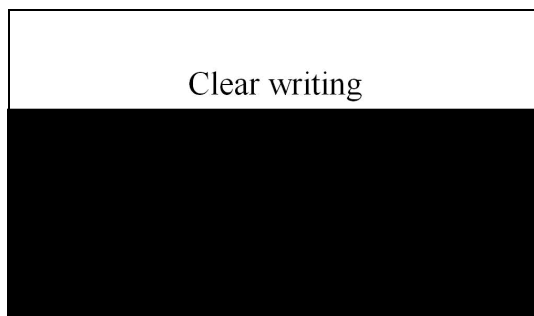
To remove the spotlight:

- Choose red ink again.

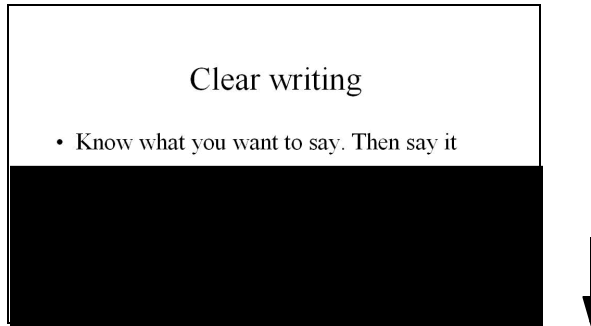
Revealing your work

To use the reveal tool:

1. Configure red ink for the reveal option. Refer to "Projection options" on page 61.
2. Choose red ink. The projected screen becomes black except one strip at the top.



3. Drag the strip down to reveal more of the screen.



To reveal the entire projected screen and continue your presentation:

- Choose red ink again.

If you prefer to write on a clean display, you can change to a blank canvas to continue writing.

To display a blank canvas for mark-ups:

- Choose the Previous arrow.

To return to the projected computer image:

- Choose the Next arrow.

Getting help

Choose "Help" from the PolyVision driver menu for information about using PolyVision products.

Checking for updates

PolyVision driver updates are available via the Internet. Registered users receive notice when updates are available. The PolyVision driver can check for updates automatically (refer to "General options" on page 57) or you can check for updates at any time.

To update the PolyVision driver:

1. Click the PolyVision driver icon in the system tray (Windows) or system menu bar (Macintosh). The PolyVision driver menu appears.

2. Choose "Check for Updates" from the menu when your computer is connected to the Internet. A system check reveals whether the version number available on the web agrees with the version installed on your system. If the version numbers are not the same, you can choose to initiate the download and automatic installation of the update. You can also enable automatic updates (refer to "General options" on page 57).

Using Webster

Webster® software is available from www.polyvision.com. If you would prefer to use the features of Webster instead of the ease and simplicity of the PolyVision driver, you can start Webster.

To use Webster software instead of the PolyVision driver:

1. Click the PolyVision icon in the system tray (Windows) or system menu bar (Macintosh). The PolyVision driver menu appears.
2. Choose "Open Webster" from the menu. Webster opens.
3. Choose "Find Whiteboard" from the Edit menu.
4. Select the PolyVision product that you want to use with Webster.

To return to using the PolyVision driver, quit Webster.

NOTE:

Only Webster versions 3.6 and higher are capable of sharing boards with the PolyVision driver. Check the PolyVision web site at www.polyvision.com for compatibility with your product.

Quitting the PolyVision driver

To shut down the PolyVision driver:

1. Click the PolyVision driver icon in the system tray (Windows) or system menu bar (Macintosh). The PolyVision driver menu appears.
2. Choose "Exit PolyVision driver" (Windows) or "Quit PolyVision driver" (Macintosh) from the menu. The PolyVision driver closes.

To resume capturing snapshots or operating the board using the remote control:

- **Windows:** choose "PolyVision driver" from the Start/Programs/PolyVision menu.

- **Macintosh:** double-click “PolyVision driver” in the Applications folder.

To uninstall the PolyVision driver in Windows

To uninstall the PolyVision driver in Windows:

1. Click “Start” at the lower left corner of the task bar.
2. Choose “Programs” from the menu.
3. Choose “PolyVision driver” from the menu.
4. Choose “Remove PolyVision driver.”

To uninstall the PolyVision driver on a Macintosh

You have two ways to uninstall the PolyVision driver on a Macintosh, based on whether you have access to the PolyKey. If you have access to the USB cable with the PolyKey:

1. Insert the PolyKey located at one end of the USB cable in the USB port of your computer.
2. Double-click the PolyKey icon that appears on the computer desktop.
3. Click “PolyVision Driver Installer.”
4. Use the “Uninstall” option.

If you do not have access to the USB cable and PolyKey, drag the following files to the Trash and then restart your computer:

1. Navigate to “Applications” and then to “PolyVision.”
2. Launch “PolyVision Driver Uninstaller.app.”
3. Follow the prompts as directed.

NOTE:

To delete these files, you need to enter an administrator password.

Technical support

To contact PolyVision North American Technical Support:

- Phone: 1.800.620.POLY (7659), 678.542.3100
Technical support representatives are available Monday through Friday from 8 AM Eastern time to 8 PM Eastern time.
- E-mail: support@polyvision.com
- Internet: www.polyvision.com

Or, outside North America contact PolyVision Europe/Asia Technical Support:

- Phone: +32 (0)89 32 31 30
- E-mail: business.center@polyvision.be
- Internet: www.polyvision.com

Appendix 1: Ēno Bluetooth pairing options

Every Bluetooth device must be paired to the computer that will use the device, just as a Bluetooth headset needs to be paired to a cell phone before it will work.

The Ēno stylus must be paired with one computer at a time. Pairing only needs to occur once, and even changing the Ēno stylus battery will not unpair the stylus from the computer.

This appendix covers alternative Bluetooth pairing scenarios:

- pairing with the PolyVision driver
- pairing with Windows or Apple built-in Bluetooth
- pairing with third-party Bluetooth on the computer

Pairing Ēno using the PolyVision driver

The PolyVision driver that you install on your computer can automatically pair the computer with the stylus if you are using the PolyVision Bluetooth adapter or the built-in Windows or Apple Bluetooth capability.

To pair your Ēno stylus with your computer using the PolyVision driver:

1. Turn on your computer.
2. Optional: Plug the PolyVision Bluetooth adapter into any available USB port. A message appears when device drivers have been installed.
3. Turn on the Ēno stylus by removing the cap.
4. On your computer, click the PolyVision icon appears in your system tray (Windows) or system menu (Macintosh).
5. Choose “Configure the PolyVision driver” from the menu.
6. Click the “Hardware” tab.
7. Click “Pair Stylus.” Pairing proceeds automatically for most computers. If you have a Macintosh with operating system 10.3, follow the prompts you see on your screen.
8. Repeat these steps to pair additional Ēno styli with this computer.

Note that you can pair three styli with one computer, but a stylus can be paired with only one computer at a time.

Pairing Ēno using built-in Windows or Apple Bluetooth

If your computer includes the built-in Windows or Apple Bluetooth capability and you choose not to use the PolyVision driver to automatically pair the stylus, you can pair the stylus just as you would any other Bluetooth device.

To pair your Ēno stylus with your computer's built-in Windows or Apple Bluetooth capability:

1. Turn on your computer.
2. Turn the Ēno stylus on by removing the cap.
3. On your computer, navigate to the Control Panel. For example, in Windows click the "Start" button, then select "Control Panel."
4. Click the Bluetooth Devices icon.



5. Select the "Devices" tab and click the "Add" button. This will launch the "Add Bluetooth Device Wizard."
6. Click the box that indicates that "My device is set up and is ready to be found" and click "Next."
7. You will see a list of all Bluetooth devices. Click the item listed as "PolyVision Stylus" followed by an associated Bluetooth address.
8. Enter the passcode, which "0109".
9. Repeat these steps to pair additional styli to this computer.

Note that you can pair several styli with one computer, but a stylus can be paired with only one computer at a time.

Pairing Ēno using third-party Bluetooth

To use a third-party Bluetooth solution to pair the Ēno stylus with your computer:

1. Launch the software that comes with your third-party Bluetooth capability. It may launch from:
 - The control panel
 - An option in the start menu/programs menu.
 - A Bluetooth icon in the taskbar or system menu bar.



2. Turn on the Ēno stylus by removing the cap.
3. Locate and start the mechanisms for pairing, such as one of the following:
 - Add a Device
 - Pair a Device
 - Search for a Device.

The stylus is listed as “ADP-301” and is only visible briefly after the cap is removed. If you do not see the stylus, replace the cap, wait two seconds, and remove the cap back again. After six seconds the stylus is visible to the computer.

4. Follow the prompts from the third-party Bluetooth software. The general process is as follows:
 - Search for Bluetooth devices and select the “ADP-301 stylus.”
 - Pair the ADP-301 stylus. When asked, the stylus uses a PIN code or passkey of 0109.
 - After entering the PIN code, the stylus should pair to your computer.

To determine if the pairing is successful and there is wireless communication between the PolyVision driver installed on your computer and the Ēno stylus:

1. Turn on the Ēno stylus by removing the cap.

2. On your computer, click the PolyVision icon appears in your system tray (Windows) or system menu (Macintosh).
3. Choose “Configure the PolyVision driver” from the menu.
4. Click the “Hardware” tab. The stylus should be listed as a hardware device.

Appendix 2: Using Walk-and-Talk Wireless (IR)

The Walk-and-Talk™ Wireless option provides infrared wireless communication between your interactive whiteboard (WT or WTL) and your computer.

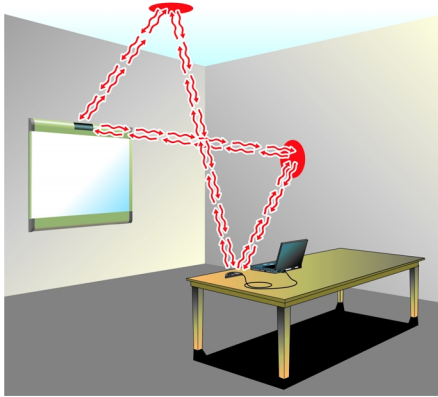


NOTE:

Refer to the **PolyVision Installation and Operation Guide** for information about installing the Walk-and-Talk wireless (IR) adapter.

Walk-and-Talk Wireless components replace the USB cable connection between your whiteboard and computer, giving you the freedom to position your computer up to 24 feet (7 m) away.

Infrared communication is designed to reflect from the ceiling and walls, enabling it to bounce over the heads of people writing on the board or sitting near the computer, so a direct line of sight between the board and the transmitter is not needed.



Hardware requirements:

- One serial port or one USB port and serial-to-USB adapter, available from PolyVision.
- Walk-and-Talk Wireless adapter installed in the Walk-and-Talk whiteboard. (Refer to the **PolyVision Installation and Operation Guide**.)

All Walk-and-Talk whiteboards, including Lightning models (WTL), require a power supply to work with Walk-and-Talk Wireless.

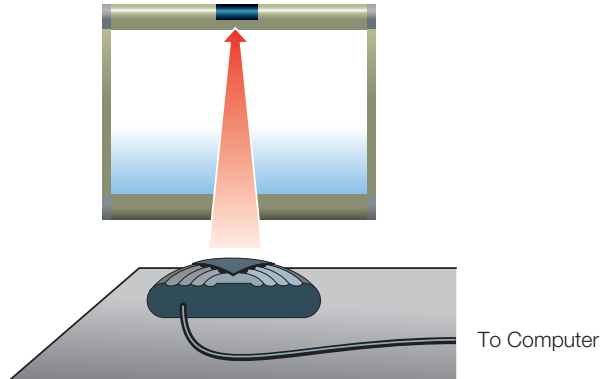
NOTE:

If you are using the wireless option with a WTL interactive whiteboard, be sure to connect the power supply provided with the wireless components to your board and to a power outlet.

The reflected infrared light can fill a standard size conference room or classroom to provide a very stable communication link between the board and your computer.

To establish a wireless communication link between the whiteboard and your computer:

1. Position the wireless transmitter so the curved edge faces the board.



2. Adjust the position of the transmitter until the LED on it turns green.
3. If you are using the wireless option with a serial-to-USB adapter, install the software for the adapter first.

If you are connecting the wireless transmitter to the serial (COM) port on your computer, not using a serial-to-USB adapter, configure the PolyVision driver to communicate with your computer serial port as follows: click the PolyVision icon in your computer's system tray (Windows) or system menu (Macintosh), choose "Configure PolyVision," click the "Hardware" tab and click the "Find Serial Whiteboards" button. The PolyVision driver searches all serial ports for attached boards and adds them to the list. Select your board and click OK.

4. Test the wireless communication link by standing in front of the wireless transmitter. If the LED on the transmitter turns from green to amber, try moving the transmitter or other features in the room until the LED remains green even if someone stands in front of it. (Rooms with high ceilings or with few walls may require line-of-sight to operate Walk-and-Talk Wireless.)

Appendix 3: Using the TS Wireless option (IR)

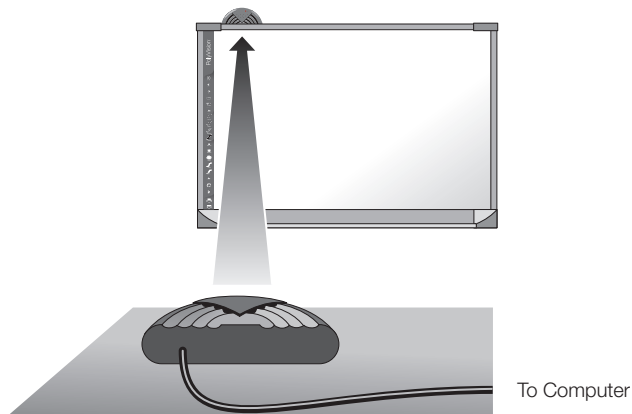
TS Wireless uses reflected infrared (IR) light to communicate between transceivers on your whiteboard and your computer. A direct line of sight between the transceivers is not needed for reliable communication. Both transceivers are designed to shine and detect IR light using the ceiling.

Install TS Wireless so both transceivers have an unobstructed view of the area of the ceiling between the two transceivers. This allows the IR from each transceiver to bounce over the heads of people writing on the board and sitting near the computer.

TS Wireless works best when the two transceivers are within 24 feet (7 m) of one another. The TS wireless option only works with TS interactive whiteboards.

Ceiling height and material also make a difference in performance. The higher the ceiling, the closer together the transceivers need to be. A non-IR reflective ceiling also reduces the range. The 24-foot (7 m) range assumes a typical office conference room with a ceiling height of between 8 and 12 feet (2.5 and 3.5 m) and a light-colored, acoustic tile ceiling. If your ceiling is not IR reflective, try using one of your walls. Do this by mounting one transceiver on the side of your whiteboard and pointing the other transceiver toward the wall on that side of the whiteboard.

Position the transceiver so the curved edge of the transceiver points toward the transceiver on the board.



Adjust the position of the computer and whiteboard transceiver until both transceivers show a green light, then use the double-sided tape to fasten the whiteboard transceiver in place.

Once TS Wireless is installed and while a wireless link is established (green lights on both transceivers) most TS whiteboard systems function just as they did with the serial or USB cable in place.

Transceiver LEDs

The lights on both transceivers must be green for TS Wireless to work properly. It is possible for one transceiver to have a green light when the other transceiver only has an amber light. Be sure to check the lights on both transceivers before trying to use your whiteboard. It is also possible to have two green lights without the transceivers being plugged into the serial ports of the board or the computer and when either the board or the computer is not turned on.

Under certain circumstances the link breaks between TS Wireless transceivers. The light in the center of each TS Wireless transceiver tells you the current status:

- | | |
|--------|---|
| OFF: | Transceiver is not receiving power. |
| AMBER: | Transceiver is receiving power. |
| GREEN: | Transceiver is receiving power and a signal from the other transceiver. |

Establishing a wireless link

TS Wireless transceivers attempt to establish a wireless link automatically whenever they are powered on. Connecting power to a TS Wireless transceiver does two things:

- The transceiver starts sending out a signal that the other transceiver can receive.
- The transceiver starts looking for a signal from the other transceiver.

The green light comes on when the transceiver with the green light can see the signal from the other transceiver.

When a wireless link breaks

When the wireless link breaks:

- The light on one or both of the transceivers turns amber.
- Data stops flowing between your whiteboard and your computer.
- Your Webster software may give you an error message.

The Webster software error message can appear even when both transceiver lights are green. This means that one of the two transceivers has come unplugged from the serial connection on the board or the PC or that the board itself has lost power.

Re-establishing a broken link

It is possible to break the link in several ways. The two most obvious ways are to cover one of the transceivers or to unplug one of the transceivers from power. It is also possible to break the link by “shadowing” one of the transceivers. Because you can’t see IR light, you can’t see a shadow in the IR light being sent from one transceiver to another. A shadow usually occurs when a large object, like a person, is placed very close to one of the transceivers so it cannot see or bounce light off of the ceiling.

Remove the cause of the broken link and the link will automatically restore itself. The troubleshooting section gives you a list of symptoms, probable causes and cures for broken links.

Troubleshooting the TS wireless (IR) option

Problem	Cause	Solution
Both transceiver lights are GREEN, but your software says communication has been lost.	One or both ends of the serial cable is unplugged.	<ol style="list-style-type: none"> 1 Check the serial connections at both board and computer. 2 Some computers have multiple serial ports. Your whiteboard software may be trying to use a different serial port than the one your transceiver is connected to. Try connecting to a different serial port. 3 Try disabling other software that may be using the same com port, such as Palm HotSync.
One transceiver light is GREEN and the other is AMBER.	<ol style="list-style-type: none"> 1 The transceiver with the AMBER light is shadowed. 2 The transceiver with the GREEN light is blocked. 	<p>Move the AMBER transceiver away from any tall or overhanging objects such as computer monitors.</p> <p>Reposition the GREEN transceiver away from any tall or overhanging objects. If the board side transceiver is GREEN look for objects hanging from the ceiling above and in front of the transceiver such as drapes or signs.</p>
Both transceiver lights are AMBER.	The transceivers are too far apart or are shaded from one another.	<ol style="list-style-type: none"> 1 Move the transceivers closer together. 2 Move the transceivers out from under any overhanging objects. 3 Move the transceivers away from tall, wide objects that are between the two transceivers.

The light on one transceiver is OFF.	This transceiver has lost power.	<ol style="list-style-type: none"> 1 Check that the cord from the power supply is fully plugged into serial connector 2 Check that the power supply is plugged into the wall. 3 If a switch controls the wall plug, make sure the switch is on.
The connection keeps breaking and re-connecting while using the board.	Something moving in the room is periodically shadowing one of the transceivers. This is likely to be someone standing in front of the whiteboard, or walking in front of or sitting near the computer transceiver.	<p>On the whiteboard side, move the transceiver higher on the wall.</p> <p>On the computer side, move the transceiver away from any aisles or walkways. Particularly, move the transceiver away from any place where a person is likely to sit in front of the transceiver.</p>

Appendix 4: Using the WT or TS 600 BT (Bluetooth) option

For Walk-and-Talk and TS 600 interactive whiteboards, the WT or TS Bluetooth® adapter from PolyVision® provides wireless Bluetooth communication between your computer and PolyVision interactive whiteboard.

Refer to the **PolyVision Interactive Whiteboard Installation and Operation Guide** to install the WT or TS 600 Bluetooth adapter.

For Bluetooth wireless operation of a PolyVision interactive whiteboard, your computer must have Bluetooth capability and you must register the whiteboard's Bluetooth connection with your computer.

NOTE:

Instructions below describe registering the whiteboard's Bluetooth connection with your computer using Bluetooth software provided with Windows. If you installed an adapter made by another company on your computer to add Bluetooth capability, the menus and Wizards may differ. Be sure to connect any needed Bluetooth adapter to your computer and install the adapter software on your computer before you connect the TS Bluetooth adapter to the whiteboard and apply power to the whiteboard.

Registering the whiteboard in Windows

For each whiteboard (WT, WTL, or TS 600) that you want to share wireless Bluetooth communication with your computer, you must register the whiteboard with your computer.

To register a whiteboard for wireless communication with a Windows-based PC:

1. Right click the Bluetooth icon in your Windows taskbar.



You see the following menu. (Remember, if you use Bluetooth software not provided by Windows, your menu may differ.)

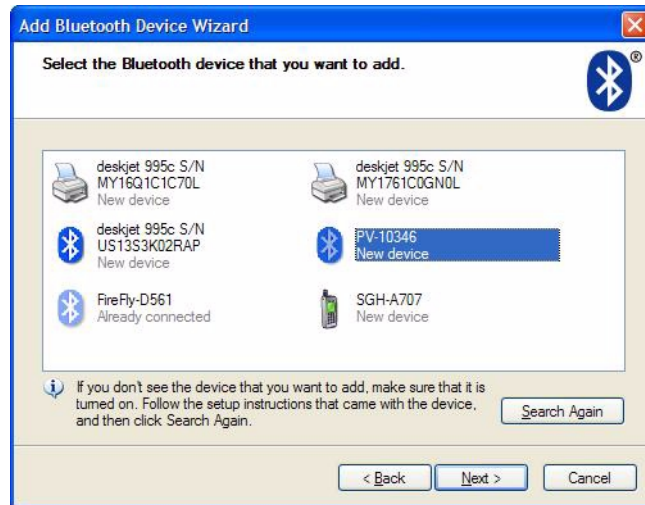


2. Choose "Add a Bluetooth Device" from the menu. You see the dialog box shown below.

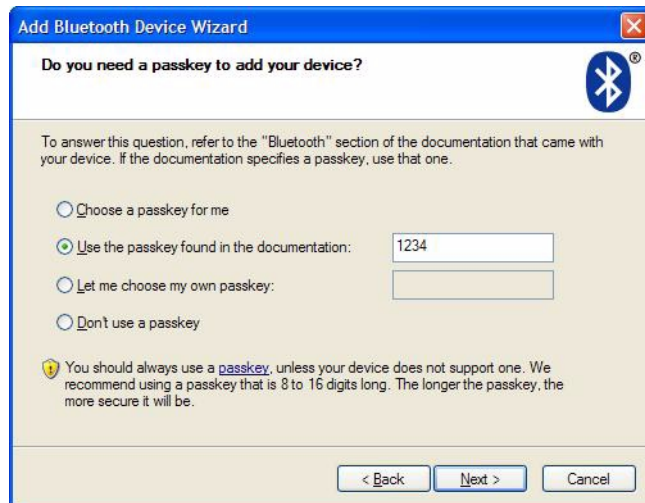


3. Make sure that the whiteboard Bluetooth adapter is connected and the whiteboard is powered on.
4. Check "My device is set up and ready to be found."

- Click “Next.” You see the dialog box shown below.



- Select your whiteboard from the list and click “Next.” You see the dialog box shown below.



- Click the radio button beside “Use the passkey found in the documentation” and enter “1234” as shown.

8. Click "Next" and wait for the software to connect to the whiteboard.
9. The software automatically finishes establishing the connection and tells you the COM port where you can expect to find the whiteboard connection. In the example below, the COM port is COM36.

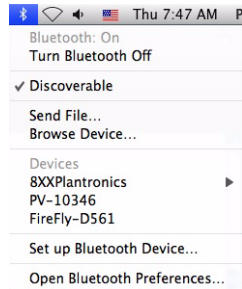


10. Your whiteboard is now accessible via the Bluetooth connection.
11. This Bluetooth communication link appears in the list of active connections on your computer and automatically reconnects in the future.
12. To check or change this Bluetooth connection, choose "Open Bluetooth Settings" from the menu that appears when you right click the Bluetooth icon in your taskbar.
13. If the software asks you for a passkey, the factory default is "1234."
14. Skip to "Confirming Bluetooth registration" on page 91.

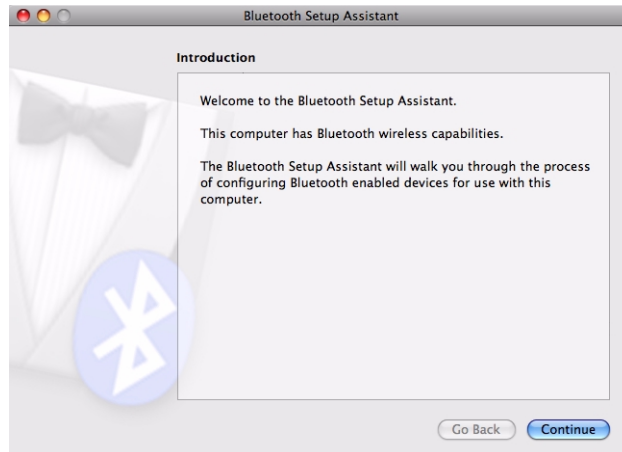
Registering the whiteboard on a Macintosh

For each whiteboard that you want to share wireless Bluetooth communication with your computer, you must register the whiteboard with your computer.

1. To see the Bluetooth menu, click the Bluetooth icon in the system menu.



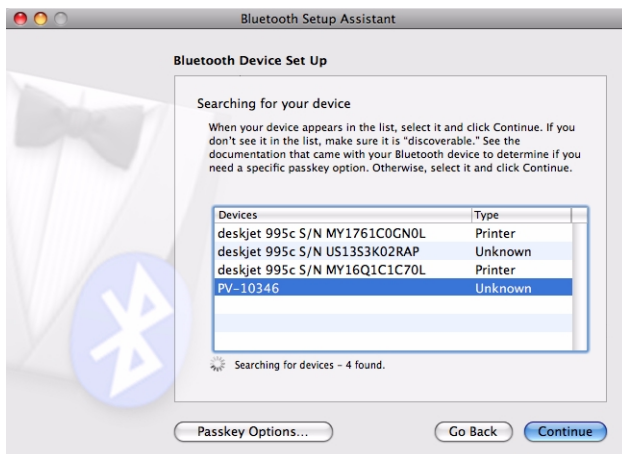
2. Select "Set up Bluetooth Device." The Bluetooth Setup Assistant appears.



3. Click "Continue." You see the Select Device Type dialog.



4. Select "Any device."
5. Click "Continue." A list of discoverable Bluetooth devices appears.

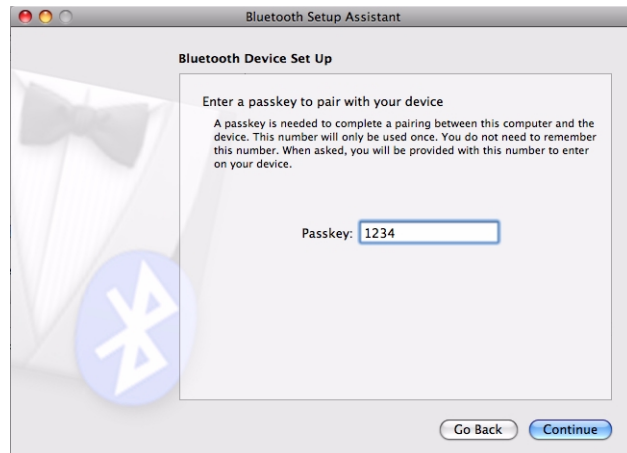


6. Select the Polyvision Bluetooth-Serial adapter identified by a number in the form PV-10346, for example.

7. Click "Continue." The system gathers information about your adapter.

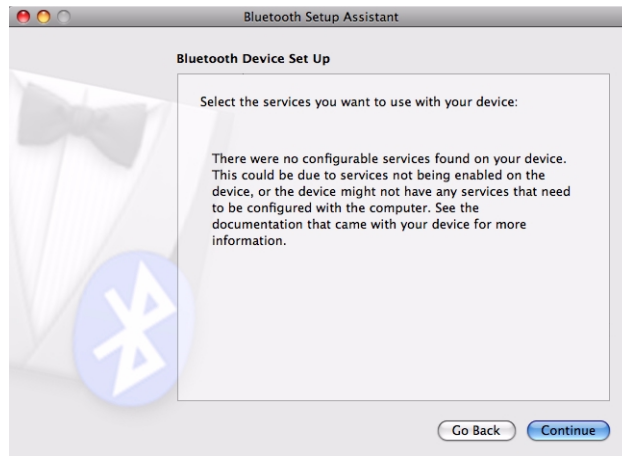


8. Click "Continue" when the setup assistant has completed gathering information about your device. You are prompted to enter a passkey.



9. Enter "1234."

10. Click “Continue.” You see the Bluetooth Device Setup window. No services are available.



11. Click “Continue.” You see the Conclusion window.

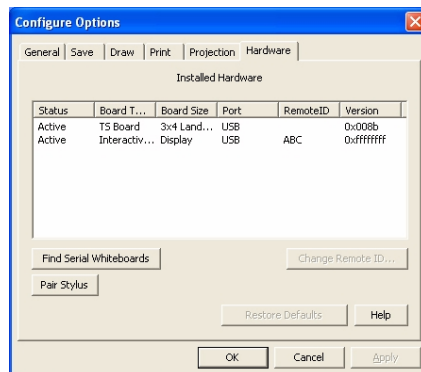


12. Click “Quit.”

Confirming Bluetooth registration

To confirm wireless communication between your computer and the whiteboard:

1. Click the PolyVision driver icon in your system tray (Windows) or system menu bar (Macintosh). You see the PolyVision driver menu.
2. Choose "Configure the PolyVision driver" from the menu.
3. Click the "Hardware" tab. Your Bluetooth device appears in the list using an identification number in the form "PV 10346" for example.



4. Some whiteboards may not be listed. If your device is not listed, click "Find Serial Whiteboard." If your device is still not listed, there is a problem with your Bluetooth registration.
5. Click "OK" to close.
6. Confirm that the whiteboard and your computer are communicating by writing on the board saving a sample file (Press "Save" on the remote control for WT or WTL or tap the "Save" icon on the whiteboard for TS 600). Check the file in your "My Documents" (Windows) or "Documents" (Macintosh) folder.

FCC identification

The FCC identification number for this Bluetooth device is T9JRN41.

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